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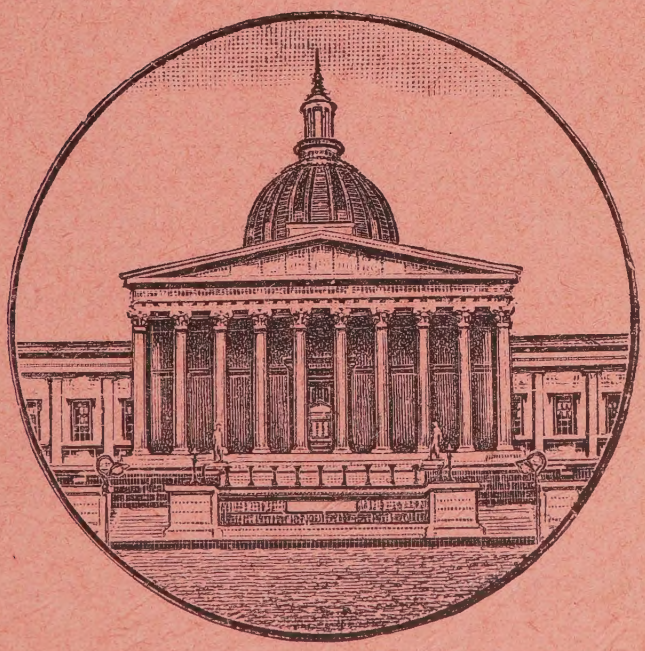
UNIVERSITY OF LONDON

UNIVERSITY COLLEGE.

ANNUAL REPORT.

February 1939—February 1940.



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1940.

Since 3rd September, 1939, the College has been evacuated from University College, London, and is distributed as follows :—

Faculties of Arts (including Economics) and Laws, and part of the Faculty of Science.	University College of Wales, Aberystwyth.
Faculty of Science	University College of North Wales, Bangor.
Faculty of Engineering	University College, Swansea.
Faculty of Medical Sciences : (Men students)	University College of South Wales and Monmouthshire, Cardiff.
(Women students)	The University of Sheffield.
The Bartlett School of Architecture ..	The University of Cambridge.
The Slade School of Fine Art.. ..	The University of Oxford.

The College Office is at 9 Marine Terrace, Aberystwyth.

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COLLEGE COMMITTEE.

Chairman: The Rt. Hon. the VISCOUNT SANKEY OF MORETON, P.C., G.B.E., D.C.L., LL.D.‡

Vice-Chairman: The Rt. Hon. LORD MESTON, K.C.S.I., LL.D.‡

Joint Treasurers: A. DIGBY BESANT, B.A., Past Pres.I.A.†
The Rt. Hon. LORD LOCH, C.B., C.M.G., M.V.O., D.S.O.

Miss BETSY AIKIN-SNEATH, Ph.D.
ARTHUR BRIAN ASHBY, M.A.
H. ARTHUR BAKER, M.A., D.L., J.P.
Sir ROBERT WALEY COHEN, K.B.E.
Professor J. C. DRUMMOND, D.Sc.
Professor C. B. FAWCETT, B.Litt., D.Sc.
Sir ALEXANDER GIBB, G.B.E., C.B., F.R.S., Past Pres.Inst.C.E.†
A. S. GILBERT, LL.M.
Mrs. RICHENDA GILLETT, M.D.
DAVID HERON, D.Sc.†
Professor C. K. INGOLD, D.Sc., F.R.S.
Professor R. O. KAPP, B.Sc., M.I.E.E.
Professor G. W. KEETON, M.A., LL.D.
Sir ALLEN MAWER, M.A., Litt.D., F.B.A. (Provost). †
ROGER T. SMITH, B.Sc., M.Inst.C.E., M.I.Mech.E., M.I.E.E.†
ELISABETH F. STEVENSON, M.A.
H. TERREY, B.Sc.
WILFRED TROTTER, M.D., M.S., LL.D., D.Sc., F.R.C.S., F.R.S.†*
Miss C. E. WICKERS, A.C.P., B.A.

† Fellow of the College.
‡ Hon. Fellow of the College.
* Died 25th November, 1939.

PROFESSORIAL BOARD.

Chairman.

SIR ALLEN MAWER, M.A., Litt.D., F.B.A.†

	Appointed§
PATRICK ABERCROMBIE, M.A., F.R.I.B.A.	1935
E. N. DA C. ANDRADE, D.Sc., Ph.D., F.R.S.†	1928
BERNARD ASHMOLE, M.A., B.Litt., F.B.A.	1929
EDITH C. BATHO, M.A., D.Lit.†*	1937
NORMAN H. BAYNES, M.A., D.D., F.B.A., F.S.A.†	1932
H. HALE BELLOT, M.A.†	1930
TANCRED BORENIUS, D.Lit., Ph.D., F.S.A.	1922
R. OGILVIE BUCHANAN, M.A., Ph.D.*	1938
CYRIL L. BURT, M.A., LL.D., D.Sc.	1932
HAROLD E. BUTLER, M.A.	1911
M. CARY, M.A., D.Litt.	1938
R. W. CHAMBERS, M.A., D.Lit., F.B.A.†	1922
H. J. COLLINS, M.Sc., M.Inst.C.E., M.I.Mech.E.	1936
H. O. CORFIATO, S.A.G.D., F.R.I.B.A.	1937
J. D. COWLEY, M.A., F.L.A.	1934
ELIZA JEFFRIES DAVIS, M.A., F.S.A.†	1921
G. R. DE BEER, M.A., D.Sc.	1939
J. C. DRUMMOND, D.Sc.	1920
C. LOVATT EVANS, LL.D., D.Sc., F.R.C.P., F.R.S.†	1926
C. B. FAWCETT, B.Litt., D.Sc.	1928
R. A. FISHER, M.A., Sc.D., F.R.S.	1933
H. T. N. GAITSKELL, B.A.	1937
S. R. K. GLANVILLE, M.A., F.S.A.	1935
J. B. S. HALDANE, M.A., F.R.S.	1933
A. V. HILL, O.B.E., M.A., Sc.D., D.Sc., F.R.S.	1923
G. T. R. HILL, M.C., M.Sc.(Eng.), M.I.Mech.E., F.R.Ae.S.†	1934
T. G. HILL, D.Sc., A.R.C.S.	1929
C. K. INGOLD, D.Sc., F.R.S.	1930
J. W. JEAFFRESON, M.A.*	1939
G. B. JEFFERY, M.A., D.Sc., F.R.S.†	1924
H. F. JOLOWICZ, M.A., LL.D.	1931
DANIEL JONES, M.A., Dr.Phil.	1921

† Fellow of the College.

§ The dates given in the case of Professors are those in which they were appointed to their respective Chairs : in the case of others, the dates are those in which they were appointed members of the Professorial Board.

* Selected by ballot for membership during Session 1939–40. (College Statute 24 (5), Regulation 29.)

	Appointed §
R. O. Kapp, B.Sc., M.I.E.E.	1935
G. W. Keeton, M.A., LL.D.	1938
W. B. R. King, O.B.E., M.A., Sc.D.	1931
J. Macmurray, M.C., M.A.	1928
H. S. W. Massey, M.Sc., Ph.D.	1939
J. H. Morgan, M.A., K.C., D.L.	1915
J. E. Neale, M.A.†	1927
E. S. Pearson, M.A., D.Sc.†	1935
Camillo Pellizzi, D.Lit., Dr.J.	1934
G. J. Renier, Ph.D.	1936
A. E. Richardson, A.R.A., F.S.A., F.R.I.B.A.	1919
Constance M. Rigby, M.A., Ph.D. *	1939
E. J. Salisbury, C.B.E., D.Sc., F.R.S. †	1929
Randolph Schwabe, A.R.W.S.	1930
C. Singer, M.D., D.Litt., D.Sc., F.R.C.P.	1931
C. J. Sisson, M.A., D.Lit., D.-ès-L.	1928
M. T. Smiley, M.A.	1925
A. H. Smith, D.Lit., Ph.D.*	1938
S. Sugden, D.Sc., F.R.S.	1937
H. Terrey, B.Sc.*	1934
D. M. S. Watson, D.Sc., F.R.S.	1921
H. E. Watson, D.Sc.†	1934
T. Weevers, Litt.D.	1937
J. A. Wilks, M.A., F.L.A. [Librarian] †	1926
L. A. Willoughby. M.A., D.Lit., Ph.D.†	1931
F. R. Winton, M.D.	1938
B. Woledge, M.A., D. de l'Univ.	1939
A. Wolf, M.A., D.Lit.†	1921
D. Orson Wood, M.Sc.	1932
T. L. Wren, M.A.	1925

Assessors.

The Sub-Deans of the Faculties :—

Arts : L. Solomon, M.A.	1907
Engineering : H. E. Monteagle Barlow, B.Sc., Ph.D., A.M.I.E.E., A.M.I.Mech.E.	1936

The Tutor to Women Students :—

Edith Goodyear, B.Sc.	1926

---

† Fellow of the College.

§ The dates given in the case of Professors are those in which they were appointed to their respective Chairs : in the case of others, the dates are those in which they were appointed members of the Professorial Board.

* Selected by ballot for membership during the Session 1939–40. (College Statute 24 (5), Regulation 29.)

ADMINISTRATIVE STAFF.

Provost.

Sir ALLEN MAWER, M.A., Litt.D., D.C.L., F.B.A., Fellow of the College, Hon. Fellow of Gonville and Caius College, Cambridge.

Secretary.

E. L. TANNER, M.A., A.C.A., A.I.A.

Assistant Secretary.

B. G. GREIG.

Accountant.

W. ARMSTRONG, A.C.A.

Registrar.

H. E. FOSTER, M.A., F.Z.S.

Secretary's Office.—Superintendent of Records and Private Secretary to the Provost.—O. V. LAWLEY. Senior Clerk.—R. L. GREGORY. Alumnus Secretary.—MILLICENT M. OLDHAM. Private Secretaries.—DOROTHY C. BOALCH, BETTY M. BAKER, B.A. Confidential Clerks.—J. W. HUNT, MARIAN WILLARD. Telephone Operator.—LOUISA SANSOM. Deputy Telephone Operator.—VIOLET D. HAWES. Clerks.—W. N. PICKFORD, S. A. ATKINSON.

Accounts Office.—Assistant Accountant.—F. H. J. DAVIDSON. Accounts Assistants.—R. CHAPPELL, L. J. GUE, W. H. F. NICHOLLS. Clerks.—J. NOKES, H. J. W. FEASEY, N. C. SHRUBB.

Registrar's Office.—Deputy Registrars.—E. MURIEL JUKES, B.A., WINIFRED RADLEY. Confidential Clerks.—LILY COOPER, NINA W. DAVIS, MARY M. FAULL, HELEN HARTLEY, E. VALERIE HEUBACH, B.A., GERTRUDE A. HOLMES, B.A., BEATRICE E. HOW, NANCIE L. PANK.

Cashier.—H. MARKLEW. Assistant Cashier.—J. H. NICHOLLS.

Comptroller of Chemistry Stores.—H. J. EVANS, B.Sc. First Assistant.—P. W. SLATER. Second Assistant.—J. S. CHALLIS.

Establishment Officer.—D. H. GILL, C.M.G., D.S.O.

Publications Secretary.—ANNE KAY ROBERTSON. Clerk.—MARGARET F. POYNTER.

Steward of the Refectory.—R. NOEL SMALL, B.A. Assistant Steward.—E. IRENE VENABLES.

Superintendent of Buildings.—A. H. TAYLOR. Clerk to Superintendent.—E. W. FELLOWS. Storekeeper.—A. W. CONISBEE.

Honorary Sanitary Adviser.—M. E. DELAFIELD, M.B., B.Ch., D.P.H.

Auditors.—Messrs. PRICE, WATERHOUSE & CO.

ACADEMIC STAFF HOLDING ADMINISTRATIVE APPOINTMENTS.

Senior Tutor (Arts and Laws).
L. Solomon, M.A.

Tutor to Women Students.
Edith Goodyear, B.Sc.

Faculty Tutors.

Tutor to Arts Students.—L. Solomon, M.A.

Tutor to Laws Students.—Professor G. W. Keeton, M.A., LL.D.

Tutor to Science Students.—D. O. Wood, M.Sc.

Tutor to Engineering Students.—H. E. M. Barlow, B.Sc., Ph.D., A.M.I.E.E., A.M.I.Mech.E.

Tutor to Medical Students.—Professor J. C. Drummond, D.Sc.

LIBRARY STAFF.

Librarian.
J. A. Wilks, M.A., F.L.A.
Fellow of the College.

Sub-Librarian.
Norah Beale, B.A.

Assistant Librarians.—F. M. C. Johnson, Joyce Pearson, F.L.A., A. E. Tooth, M.A., F.L.A., C. R. Fincken, B.A. Senior Library Assistant.—R. A. Blackall. Library Assistants.—R. I. J. Tully, F.L.A., C. F. A. Marmoy, F.L.A. Junior Library Assistants.—H. W. Callaghan, J. Lust, F. C. Greenham, D. A. Brunning. Clerical Assistant.—Joyce M. Haymes, B.A.

Note.—On December 31st, 1939, twenty-seven members of the Administrative and Library Staffs were absent on National or other service. Twenty-one members were serving on the staff of the College in Wales or elsewhere. As these numbers are subject to constant variation, no attempt is made in the foregoing list to distinguish those persons who are absent on National or other service.

DEPARTMENTS AND STAFF.

(*January* 1940.)

[The names of Members of the respective Faculties are printed in SMALL CAPITALS.]

Faculty of Arts.

Dean.—Professor BERNARD ASHMOLE.
Vice-Dean.—Professor H. HALE BELLOT.
Sub-Dean—L. SOLOMON.

Subject.	*Name.*	*Status.*
Archæology	BERNARD ASHMOLE, M.A., B.Litt., Hon. A.R.I.B.A., F.B.A.	Yates Professor.
	R. E. M. Wheeler, M.A., D.Lit., F.S.A.†	Lecturer (British Archæology).
	F. J. Richards, M.A.	Hon. Lecturer (Indian Archæology).
	K. de B. Codrington, M.A.....	Hon. Lecturer (Indian Art).
Architecture	A. E. RICHARDSON, A.R.A., F.S.A., F.R.I.B.A.	Professor.
	PATRICK ABERCROMBIE, M.A., F.R.I.B.A.	Professor of Town Planning.
	H. O. CORFIATO, S.A.D.G., F.R.I.B.A.	Professor of Architectural Design.
	H. Warren Wilson, A.R.C.A. ..	Lecturer (Decoration).
	M. J. Dawson, F.R.I.B.A.	Lecturer.
	L. STUART STANLEY, M.A., F.R.I.B.A.	Lecturer and Tutor.
	H. Ingham Ashworth, M.A., F.R.I.B.A.	Lecturer and Studio Instructor (Construction).
	S. Hyde, A.R.I.B.A.	Lecturer.
	R. C. White-Cooper, M.C., B.A., F.R.I.B.A.	Lecturer.
	E. G. Richardson, B.A., D.Sc., Ph.D.	Hon. Lecturer (Acoustics).
	A. G. Shoosmith, O.B.E., F.R.I.B.A.	Assistant.

† Fellow of the College.

Subject.	*Name.*	*Status.*
Architecture (*cont.*).	F. H. Carr, A.R.I.B.A., A.M.T.P.I.	Studio Instructors (Town Planning).
	J. D. M. Harvey, B.A.	
Celtic	R. E. Flower, D.Litt., F.B.A..	Hon. Lecturer.
Dutch History and Institutions.	G. J. Renier, Ph.D	Reader.
Dutch Language and Literature.	T. Weevers, Lit.D.	Reader.
Egyptology.....	S. R. K. Glanville, M.A., F.S.A.	Edwards Professor.
	Elise Baumgärtel, M.A., Dr.Phil.	Hon. Research Assistant.
English	R. W. Chambers, M.A., D.Lit., F.B.A.†	Quain Professor.
	C. J. Sisson, M.A., D.Lit., D. ès L.	Lord Northcliffe Professor.
	W. W. Greg, Litt.D., Hon. D.Litt., F.B.A.	Hon. Lecturer (Bibliography).
	Edith C. Batho, M.A., D.Lit.†	Reader.
	A. H. Smith, D.Lit., Ph.D.	Reader.
	Elsie V. Hitchcock, D.Lit., Ph.D.†	Lecturer.
	G. Tillotson, M.A., B.Litt. ...	Lecturer.
	H. Winifred Husbands, M.A. ..	Lecturer.
	B. Pattison, M.A., Ph.D.	Lecturer.
	G. V. Smithers, M.A.	Assistant Lecturer.
	R. G. Holloway, B.A.....	Quain Student.
Fine Arts.....	Randolph Schwabe, A.R.W.S.	Slade Professor.
	Tancred Borenius, D.Lit., Ph.D., F.S.A.	Durning - Lawrence Professor (History of Art).
	Walter Bayes, A.R.W.S.	Lecturer (Perspective).
	Margaret Alexander	Assistant.
	P. Brooker	Assistant.
	G. J. Charlton	Assistant.
	A. H. Gerrard	Assistant.
	A. Gwynne-Jones, D.S.O.	Assistant.
	Norman Janes, R.E.....	Assistant.
	G. W. Meldrum	Assistant.
	F. Ormrod	Assistant.
	V. Polunin	Assistant.
	Franklin White	Assistant.
	J. Wilkie.....	Assistant.
French	B. Woledge, M.A., D. de l'Univ.	Fielden Professor.
	J. W. Jeaffreson, M.A.†	Senior Lecturer.
	E. M. Stéphan	Senior Lecturer.
	Beatrice J. Schlumberger, M.A.	Lecturer.
	Dora Starke, M.A.	Lecturer.
	L. W. Tancock, Ph.D.	Lecturer.
	Colin Smith, M.A.	Assistant Lecturer.
	J. P. A. Vinay, M.A., L. ès L. .	Assistant.
Geography	C. B. Fawcett, B.Litt., D.Sc. ..	Professor (Economic and Regional Geography).

† Fellow of the College

Subject.	*Name.*	*Status.*
Geography (*cont.*). . .	W. B. R. King, O.B.E., M.A., Sc.D.	Yates-Goldsmid Professor (Physical Geography).
	R. Ogilvie Buchanan, M.A., Ph.D., B.Sc.(Econ.).	Reader (Economic Geography).
	R. E. Dickinson, M.A., Ph.D. . .	Lecturer.
	G. W. Shaw, B.A., Dr. Nat. Sc. .	Assistant Lecturer.
German	L. A. Willoughby, M.A., D.Lit., Ph.D.†	Professor.
	K. W. Maurer, Ph.D.	Lecturer.
	E. C. Hentschel, M.A.	Assistant Lecturer.
	C. P. Magill, M.A., Ph.D.	Assistant Lecturer.
Greek	M. T. Smiley, M.A.	Professor.
	L. Solomon, M.A.	Senior Lecturer.
	J. F. Lockwood, M.A., Ph.D. .	Lecturer.
	Barbara Flower, B.A.	Assistant Lecturer.
	J. H. Kells, B.A.	Assistant Lecturer.
Hebrew	S. Stein, Ph.D.	Goldsmid Lecturer.
History ; English . .	J. E. Neale, M.A.†	Astor Professor.
	M. A. Thomson, M.A., D.Phil.	Reader (Constitutional History).
	J. H. Le Patourel, M.A., D.Phil.	Lecturers.
	S. T. Bindoff, M.A.	Lecturers.
	N. Gash, M.A., B.Litt.	Assistant Lecturer.
	F. Barlow, M.A., B.Litt., D.Phil.	Assistant Lecturer.
,, ; London . .	Eliza Jeffries Davis, M.A., F.S.A.†	Reader.
,, ; Dutch . . .	G. J. Renier, Ph.D.	Reader.
,, ; Modern French.	A. Cobban, M.A., Ph.D.	Reader.
,, ; German . .	V. Valentin, Ph.D.	Special Lecturer.
,, ; American	H. Hale Bellot, M.A.†	Commonwealth Fund Professor.
	R. A. Humphreys, M.A., Ph.D..	Lecturer.
,, ; Ancient . .	M. Cary, M.A., D.Litt.	Professor.
	Margaret S. Drower, B.A.	Assistant Lecturer.
,, ; Byzantine	Norman H. Baynes, M.A., D.D., F.B.A., F.S.A.†	Professor.
,, ; Evening School.	G. J. Renier, Ph.D.	Tutor.
History of the Newspaper.	H. Graham Pollard	Special Lecturer.
Italian	Camillo Pellizzi, D.Lit., Dr.J.	Professor.
	Cesare Foligno, M.A., Dott. Lett.	Barlow Lecturer.
	A. M. Bassani, Sc.D.	Lecturer.
	Roberto Weiss, B.A.	Assistant Lecturer.
Latin	H. E. Butler, M.A.	Professor.
	L. Solomon, M.A.	Senior Lecturer.
	R. D. McLellan, Ph.D.	Lecturer.
	Barbara Flower, B.A.	Assistant Lecturer.
	J. H. Kells, B.A.	Assistant Lecturer.
Librarianship	J. D. Cowley, M.A., F.L.A. . .	Director.
	J. A. Wilks, M.A., F.L.A.†	Assistant Director.
	Arundell Esdaile, M.A., Litt.D., F.L.A., F.S.A.	Lecturer (Bibliography).

† Fellow of the College.

Subject.	*Name.*	*Status.*
Librarianship (*cont.*).	W. C. Berwick Sayers, F.L.A...	Lecturer (Special Administration: Public Libraries).
	B. M. Headicar, F.L.A.	Lecturer (General Library Administration).
	Margaret Taylor, M.A., F.L.A..	Lecturer (Cataloguing and Classification).
	S. C. Ratcliff, M.A.	Lecturer (Palæography and Archives).
Mathematics	G. B. Jeffery, M.A., D.Sc., F.R.S.†	Astor Professor.
	H. S. W. Massey, M.Sc., Ph.D.	Goldsmid Professor.
	T. L. Wren, M.A.....	Reader (Geometry).
	L. S. Bosanquet, M.A., D.Sc. ..	Reader.
	H. T. Jessop, M.Sc., ...	Senior Lecturer (Mechanics).
	C. C. L. Gregory, M.A., F.R.A.S.	Senior Lecturer (Astronomy).
	J. W. Archbold, M.A.....	Lecturer.
	T. Estermann, D.Sc.....	Lecturer.
	H. Kestelman, M.Sc.	Lecturer.
	Constance M. Rigby, M.A., Ph.D.	Lecturer.
	A. C. Stevenson, M.Sc.....	Lecturer.
	A. F. Devonshire, M.A., Ph.D..	Assistant Lecturer.
	B. Spain, B.A., M.Sc.	Assistant Lecturer.
	F. C. Harris, M.Sc., Ph.D.	Assistant.
	Elizabeth Williamson, F.R.A.S.	Assistant.
	R. A. Buckingham, Ph.D.	Hon. Research Assistant.
	H. G. Hopkins, B.Sc.	Demonstrator.
Philology: Classical Languages.	G. E. K. Braunholtz, M.A.	Lecturer.
Philosophy	J. Macmurray, M.C., M.A.....	Grote Professor (Philosophy of Mind and Logic).
	S. V. Keeling, M.A., D.Lit., D. ès L.	Reader.
	Edgar Wind, Ph.D.	Hon. Lecturer.
	A. R. C. Duncan, M.A.	Assistant Lecturer.
Phonetics	Daniel Jones, M.A., Dr. Phil..	Professor.
	A. Lloyd James, M.A.	Hon. Lecturer.
	Hélène Coustenoble	Lecturer.
	Hyacinth M. Davies	Lecturer.
	Eileen M. Evans, B.A.	Lecturer.
	N. C. Scott. B.A., B.Sc.	Lecturer.
	D. B. Fry, B.A.	Lecturer and Superintendent of Laboratory.
	Eugenie J. A. Henderson, B.A..	Assistant Lecturer.
	R. Kingdon.....	Assistant.
	J. P. A. Vinay, M.A., L. ès L. ..	Assistant.
	Elspeth Mackie	Assistant.
	P. A. D. MacCarthy, M.A.	Assistant.

† Fellow of the College.

Subject.	*Name.*	*Status.*
Phonetics (*cont.*).	A. Dorothy Parkinson	Assistant and Secretary to Phonetics Laboratory.
Political Economy ..	H. T. N. Gaitskell, B.A.	Reader and Head of Department, Tutor to Higher Civil Service Students.
	P. N. Rosenstein-Rodan, D.rer. Pol., B. Comm.	Reader (History of Economic Thought).
	J. M. Fleming, M.A.	Lecturer.
	T. Balogh, D.rer.Pol.	Hon. Lecturer.
	A. W. Stonier, M.A., D.Phil....	Assistant Lecturer.
	J. C. R. Dow, B.Sc.(Econ.). ...	Assistant Lecturer.
Psychology	Cyril Burt, M.A., LL.D., D.Sc.	Professor.
	J. C. Flugel, B.A., D.Sc.	Assistant Professor.
	S. J. F. Philpott, M.C., D.Sc. ..	Lecturer.
	Pryns Hopkins, M.A., Ph.D. ..	Hon. Lecturer.
	Constance A. Simmins, M.A...	Research Assistants.
	A. J. Marshall, Ph.D.	Research Assistants.
Scandinavian Studies	Sir Allen Mawer, M.A., Litt.D., F.B.A.	Hon. Director.
	J. H. Helweg, cand. mag.	Queen Alexandra Lecturer (Danish).
	I. C. Gröndahl, cand. mag. ..	W. P. Ker Lecturer (Norwegian).
	E. Mesterton, fil. mag.	Crown Princess Louise Lecturer (Swedish).
Semitic (North) Epigraphy.	S. Stein, Ph.D.	Lecturer.

[The Professor of Logic and Scientific Method is also a member of this Faculty.]

Faculty of Laws.

Dean.—Professor H. F. Jolowicz.

Vice-Dean.—Dr. S. G. Vesey-FitzGerald.

Sub-Dean.—Professor G. W. Keeton.

Constitutional Law .	J. H. Morgan, M.A., K.C., D.L.	Professor.
English Law	G. W. Keeton, M.A., LL.D....	Professor.
	W. Friedmann, Dr.Jur., LL.M.	Quain Lecturer.
	A. S. Gilbert, LL.M.	Assistant.
	J. Gold, LL.M.	Assistant Lecturer.
	A. H. Robertson, B.C.L., S.J.D.	Temporary Assistant.
Indian Law	S. G. Vesey-FitzGerald, M.A., LL.D.	Reader.
International Law .	G. Schwarzenberger, Ph.D., Dr.Jur.	Lecturer.
Jurisprudence	H. F. Jolowicz, M.A., LL.D...	Lecturer and Acting Head of the Department.
Roman Dutch Law .	Gilbert Dold, M.A. LL.B., B.C.L.	Lecturer.
Roman Law	H. F. Jolowicz, M.A., LL.D. ..	Professor.

[The Astor Professor of English History and the Senior Tutor (Mr. L. Solomon) are also members of this Faculty.]

Faculty of Science.

Dean.—Professor E. J. Salisbury.

Vice-Dean.—Professor W. B. R. King.

Sub-Dean.—D. O. Wood.

Subject.	*Name.*	*Status.*
Botany	T. G. Hill, D.Sc., A.R.C.S. ..	Professor of Plant Physiology and Director of Laboratories.
	E. J. Salisbury, C.B.E., D.Sc., F.R.S.†	Quain Professor.
	Paul Haas, D.Sc., Ph.D.†	Reader (Plant Chemistry).
	E. M. Cutting, M.A.	Senior Lecturer.
	Barbara Russell-Wells, Ph.D...	Lecturer.
	F. W. Jane, Ph.D.....	Lecturer.
	D. A. Coult, M.Sc.	Assistant Lecturer.
	J. B. Goodey, B.Sc.	Quain Student.
Chemistry	C. K. Ingold, D.Sc., F.R.S. ..	Professor and Director of Laboratories.
	S. Sugden, D.Sc., F.R.S.	Professor.
	C. R. Bailey, B.A., M.Sc.....	Reader.
	O. L. Brady, D.Sc.	Reader (Organic).
	C. F. Goodeve, D.Sc.	Reader.
	H. Terrey, B.Sc.	Reader.
	H. J. Evans, B.Sc.	Senior Lecturer.
	J. N. E. Day, M.Sc., Ph.D.....	Lecturer.
	L. F. Gilbert, B.Sc.	Lecturer.
	E. D. Hughes, D.Sc., Ph.D. ...	Lecturer.
	R. J. Le Fevre, D.Sc., Ph.D. .	Lecturer.
	H. G. Poole, M.Sc., Ph.D.....	Lecturer.
	O. J. Walker, Ph.D.	Lecturer.
	C. L. Wilson, D.Sc., Ph.D. ...	Lecturer.
	W. P. Grove, B.Sc.....	Assistant Lecturer.
	J. Norman Collie, Ph.D., LL.D., D.Sc., F.R.S.‡	Professor Emeritus and Hon. Lecturer.
	F. A. Freeth, O.B.E., Ph.D., D.Sc., F.R.S.	Hon. Lecturer.
	G. S. Hartley, D.Sc.	Hon. Lecturer.
	R. W. Lunt, M.Sc., Ph.D.....	Hon. Lecturer.
	E. Hilda Ingold, D.Sc., Ph.D...	Hon. Research Associate.
	Albert Wassermann, M.Sc., Ph.D.	Hon. Research Associate.
Chemical Engineering.	H. E. Watson, D.Sc., M.I.Chem.E.†	Ramsay Professor.
	J. P. Mullen, M.Eng.	Lecturer.
	M. B. Donald, M.Sc., A.R.C.S.	Lecturer.
Eugenics.	R. A. Fisher, M.A., Sc.D., F.R.S.	Galton Professor.

† Fellow of the College.
‡ Hon. Fellow of the College.

Subject.	*Name.*	*Status.*
Eugenics (*cont.*).	Julia Bell, M.A., F.R.C.P., ...	Hon. Galton Research Fellow.
	G. M. Morant, D.Sc.	Lecturer.
	W. L. Stevens, B.A., B.Sc. ..	Lecturer.
	G. L. Taylor, M.D., Ph.D.	Hon. Research Associate.
	A. C. Fabergé, B.Sc., Ph.D. ...	Assistant Lecturer.
	H. W. Norton, M.S.	Assistant Lecturer.
	M. Noel Karn, M.A.	Research Assistant.
	Aileen M. Prior, M.Sc.	Hon. Research Assistant.
Geology, Physical Geography, and Mineralogy.	W. B. R. King, O.B.E., M.A., Sc.D.	Yates-Goldsmid Professor.
	Edith Goodyear, B.Sc.	Hon. Lecturer.
	L. J. Chubb, M.Sc., Ph.D.	Lecturer.
	M. MacGregor, M.Sc., Ph.D. .	Lecturer.
History and Philosophy of Science.	A. Wolf, M.A., D.Lit.†	Professor (Logic and Scientific Method).
	D. McKie, D.Sc., Ph.D	Lecturer.
	A. Armitage, M.Sc.	Assistant.
Physics	E. N. da C. Andrade, D.Sc., Ph.D., F.R.S.†	Quain Professor and Director of Laboratories.
	D. O. Wood, M.Sc.	Senior Lecturer and Deputy Director of Laboratories.
	R. E. Gibbs, D.Sc.	Reader.
	N. Eumorfopoulos, B.Sc.† ...	Hon. Research Assistant.
	F. C. Chalklin, D.Sc.	Lecturer.
	G. B. Brown, M.Sc., Ph.D. ...	Lecturer.
	R. C. Brown, Ph.D.	Lecturer.
	W. E. Duncanson, M.Sc., Ph.D.	Lecturer.
	F. A. Vick, M.Sc., Ph.D.	Lecturer.
	E. Hatschek, F.Inst.P.	Hon. Research Associate.
Physiology and Biochemistry (see *Faculty of Medical Sciences*).		
Statistics	E. S. Pearson, M.A., D.Sc.† ..	Professor.
	Ethel M. Elderton, D.Sc.†	Hon. Research Associate.
	B. L. Welch, Ph.D.	Lecturer.
	Florence N. David, Ph.D.	Assistant Lecturer.
	N. L. Johnson, M.Sc.	Assistant Lecturer.
Zoology and Comparative Anatomy.	D. M. S. Watson, D.Sc., F.R.S.	Jodrell Professor.
	J. B. S. Haldane, M.A., F.R.S.	Weldon Professor (Biometry).
	Elizabeth Fraser, D.Sc.† ...	Reader.
	E. S. Russell, O.B.E., M.A., D.Sc.	Hon. Lecturer.
	G. P. Wells, M.A.	Lecturer.
	N. H. Howes, M.Sc.	Lecturer.
	M. J. D. White, M.Sc.	Lecturer.
	N. A. Barnicot, B.Sc.	Assistant Lecturer.

† Fellow of the College.

Subject.	*Name.*	*Status.*
Zoology and Comparative Anatomy (*cont.*).	Isabel C. Ledingham, B.Sc.....	Assistant Lecturer.
	Rachel M. Renton.....	Aquarium Assistant.
	Joyce Townend	Research Assistant and Secretary to the Department.
	H. Grüneberg, M.D., Ph.D. ..	Hon. Research Assistants.
	Dorothy I. Howes, M.Sc., Ph.D.	
	Ursula Philip, Ph.D.	
	H. Kalmus, M.D.	
	J. D. Young, B.Sc.	Margaret Browne Student.

[The Professors of Archæology, Biochemistry, Economic Geography, Mathematics, Physiology, Political Economy, and Psychology, Dr. Bosanquet, Dr. Flugel, Mr. C. C. L. Gregory, Mr. Jessop, Dr. Lythgoe, Mr. A. C. Stevenson, and Mr. Wren, are also members of this Faculty.]

Faculty of Engineering.

Dean.—Professor R. O. Kapp.

Vice-Dean.—Professor H. J. Collins.

Sub-Dean.—H. E. M. Barlow.

Subject.	*Name.*	*Status.*
Engineering.....	G. T. R. Hill, M.C., M.Sc.(Eng.), M.I.Mech.E., F.R.Ae.S.†	Kennedy Professor of Engineering and Director of the Engineering Laboratories.
	H. J. Collins, M.Sc., M.Inst.C.E., M.I.Mech.E., M.I.Struct.E., A.M.Am.Soc.C.E.	Chadwick Professor of Engineering.
	B. J. Lloyd-Evans, M.Sc., M.I.Mech.E.	Assistant Professor.
	A. E. Webb, B.Sc., A.M.Inst.C.E.	Senior Lecturer.
	M. E. Delafield, B.A., M.B., B.Ch., D.P.H.	Special Lecturer (Hygiene).
	P. L. Capper, M.Sc., A.M.Inst.C.E., A.M.I.Struct.E.	Lecturer.
	W. F. Cassie, M.Sc., Ph.D., A.M.Inst.C.E., A.M.I.Struct.E.	Lecturer.
	S. S. Watts, B.Sc.(Eng.).....	Lecturer.
	A. T. Miller, B.Sc., A.M.Inst. C.E., A.M.Inst.M. & Cy.E.	Lecturer.
	A. M. Ballantyne, B.Sc., Ph.D., A.M.Inst. C.E., A.M.I.Struct..E.	Lecturer.
	D. Cameron, A.M.I.Mech.E....	Senior Assistant.
Engineering: Electrical.	R. O. Kapp, B.Sc., M.I.E.E. ..	Pender Professor and Director of the Electrical Engineering Laboratories.

† Fellow of the College.

Subject.	*Name.*	*Status.*
Engineering : Electrical (*cont.*).	H. E. Monteagle Barlow, B.Sc., Ph.D., A.M.I.E.E., A.M.I.Mech.E.	Reader.
	C. W. Bayliss, M.A., A.M.I.E.E.	Lecturer (Electrical Machinery).
	J. T. MacGregor-Morris, D.Sc.(Eng.), M.I.E.E. †	Hon. Research Associate.
	A. Dunford, B.A., A.M.I.E.E...	Assistant Lecturer.
Chemical Engineering.	H. E. Watson, D.Sc., F.I.C., M.I.Chem.E.†	Ramsay Professor.
	J. P. Mullen, M.Eng., A.M.I.Chem.E.	Lecturer.
	M. B. Donald, M.Sc., M.I.Chem.E.	Lecturer.

[The Professors of Architecture, Chemistry, Geology, Mathematics, Physics, and Town Planning, together with Dr. F. C. Chalklin, Mr. L. F. Gilbert, Mr. H. T. Jessop, Dr. F. A. Vick, Mr. D. O. Wood, and Mr. T. L. Wren, are also members of this Faculty.]

Faculty of Medical Sciences.

Dean.—Professor C. Lovatt Evans.

Vice-Dean.—Professor F. R. Winton.

Sub-Dean.—Professor J. C. Drummond.

Subject.	*Name.*	*Status.*
Anatomy and Embryology.	(*Vacant*)	Professor (Anatomy).
	Una Fielding, M.B., Ch.M. ..	Reader (Neurological Anatomy).
	G. R. de Beer, M.A., D.Sc ...	Reader (Embryology).
	J. H. Gray, M.B., B.S.	Senior Demonstrator.
	R. J. O'Connor, M.B., B.S. ...	Senior Demonstrator.
	Matthew Young, M.D., D.Sc..	Lecturer.
	K. C. Richardson, M.Sc.	Lecturer (Histology).
	R. J. Ludford, D.Sc., Ph.D.† ..	Hon. Lecturer (Cytology).
	C. W. Flemming, M.A., B.M., M.Ch., F.R.C.S.	Demonstrator (Surgical Anatomy).
	A. Pollitt, M.A., M.B., B.Ch. ..	Demonstrator.
	A. G. M. Weddell, M.B., B.S. .	Demonstrator.
	J. J. Pritchard, B.A., B.Sc.....	Demonstrator.
	R. E. Norrish, F.R.C.S.	Demonstrator.
	H. E. D. Gale, M.B., B.S., M.R.C.S., L.R.C.P.	Demonstrator.
	G. S. Sansom, D.Sc.†	Hon. Research Assistants.
	J. T. Carter, F.Z.S.†	
	E. E. Evans Pritchard, Ph.D...	
	H. G. F. Herxheimer, Dr.Med. .	
	A. Haas, M.D.	

† Fellow of the College.

Subject.	*Name.*	*Status.*
Botany	T. G. Hill, D.Sc., A.R.C.S. ...	Professor (Plant Physiology) and Director of Laboratories.
	E. J. Salisbury, C.B.E., D.Sc., F.R.S.†	Quain Professor.
	E. M. Cutting, M.A.	Senior Lecturer.
Chemistry	C. K. Ingold, D.Sc., F.R.S. ..	Professor and Director of Laboratories.
	S. Sugden, D.Sc., F.R.S.	Professor.
	O. L. Brady, D.Sc.	Reader (Organic).
	H. J. Evans, B.Sc.	Senior Lecturer in Chemistry to Medical Students.
Medicine, History of	C. Singer, M.D., D.Litt., D.Sc., F.R.C.P.	Professor.
Physics	E. N. da C. Andrade, D.Sc., Ph.D., F.R.S.†	Quain Professor and Director of Laboratories.
	D. O. Wood, M.Sc., A.R.C.S. .	Senior Lecturer and Deputy Director of Laboratories.
	R. C. Brown, Ph.D.....	Lecturer.
Physiology, Pharmacology, and Biochemistry.	C. Lovatt Evans, LL.D., D.Sc., F.R.C.P., F.R.S.†	Jodrell Professor (Physiology) and Director of Laboratories.
	J. C. Drummond, D.Sc.	Professor (Biochemistry).
	F. R. Winton, M.A., M.D.	Professor (Pharmacology).
	A. V. Hill, O.B.E., M.A., LL.D., Sc.D., D.Sc., F.R.S.	Foulerton Professor* and University Professor.
	R. J. Lythgoe, M.A., M.D., D.Sc.	Reader (Physiology of the Sense Organs).
	H. R. Ing, M.A., D.Phil.	Reader (Pharmacological Chemistry).
	W. H. Newton, M.D., D.Sc. ..	Reader (Physiology).
	Phyllis M. Tookey Kerridge, M.Sc., Ph.D., M.R.C.P.	Lecturer.
	G. Stella, M.D., Ph.D.	Lecturer.
	D. H. Smyth, M.Sc., M.B., B.Ch., B.A.O.	Lecturer.
	L. Margaret Kerly, Ph.D.	Lecturer.
	Sir Stewart Duke-Elder, M.A., M.D., D.Sc., Ph.D., F.R.C.S.	Hon. Research Associates.
	E. W. Fish, M.D., D.Sc., L.D.S.	
	Margherita C. Bourne, M,Sc., Ph.D.	
	M. Grace Eggleton, D.Sc., M.R.C.S., L.R.C.P.	
	Karl Mason, Ph.D.	

* Appointed by the Royal Society.
† Fellow of the College.
‡ Hon. Fellow of the College.

Subject.	*Name.*	*Status.*
Physiology, Pharmacology, and Biochemistry (*cont.*).	A. C. Downing	Hon. Research Assistants.
	L. E. Bayliss, M.A., Ph.D.	
	Markus Engler, M.D.	
	J. P. Quilliam, M.Sc.	Sharpey Scholar.
	Katharine Tansley, D.Sc., Ph.D.	Demonstrator.
	J. H. T. Lawton, Ph.D.	Demonstrator.
	H. O. Schild, M.D., Ph.D.	Demonstrator.
	W. F. J. Cuthbertson, B.Sc. ..	Demonstrator.
	Margaret M. Cloutman, B.Sc. ..	Demonstrator.
	R. D. Harkness, B.Sc.	Demonstrator.
	J. R. Pappenheimer, B.S.	Demonstrator.
	R. R. Ridgway, B.Sc.	Demonstrator.

[The Professors of Psychology and Zoology are also members of this Faculty.]

Note.—On December 31st, 1939, sixty-seven members of the Academic Staff were absent on National or other service. Eighty-eight members were serving on the staff of the College in Wales or elsewhere. As these numbers are subject to constant variation, no attempt is made in the foregoing list to distinguish those persons who are absent on National or other service.

PREFATORY NOTE.

Immediately on the outbreak of War, plans for the evacuation of the College, which had been prepared on the advice of the Government and under instructions from the University, were put into operation. The work of the present session began in October, 1939, at the following centres :—(i.) In the University of Wales—University College of Wales, Aberystwyth ; University College of North Wales, Bangor ; University College of South Wales and Monmouthshire, Cardiff ; and University College of Swansea. (ii.) The University of Sheffield. (iii.) The School of Architecture in the University of Cambridge. (iv.) The Ruskin School of Drawing in the University of Oxford. The table on p. 20 shows the distribution of the Students among these centres. The Department of Eugenics is, through the kindness of the Rothamsted Experimental Station and its Director, Sir John Russell, housed for the time being at Rothamsted.

The new conditions have necessarily involved a wide scattering of members of the staff, many of whom are absent on National Service of various kinds.

In these circumstances, the College Committee are only able to issue an abridged Annual Report in 1940, mainly on account of the impossibility of obtaining full and accurate information for certain sections. It is their hope that, in the happy event of more normal conditions being restored before the next Report is due, it will then be possible to bridge over some of the gaps in the records.

The Committee feel that the present time is not opportune for a survey of the effects of the evacuation, but they cannot fail to record their appreciation of the way in which the many difficulties of the initial stages have been overcome. The heavy extra burdens imposed on Academic and Administrative Staff alike have been willingly and loyally undertaken. The student body have also entered into the new arrangements in a spirit of cheerful adventure and sympathetic understanding. The evacuated students are very generously raising money to provide a bursary or bursaries for "alleviating cases of special hardship." A further pleasant instance of this attitude is a donation of Five Pounds, the profits of a successful dance, just recently received from the Slade Society towards the cost of evacuating their School to Oxford. The effective manner in which the members of the Servant Staff have carried out their duties in the new and difficult conditions has greatly facilitated the arrangements. Forty of them have been retained for College service and, at the time of going to Press, sixty-six are engaged on National or other service.

Finally, the College Committee desire to place on record their grateful thanks to the receiving Colleges and Universities, who have shown such ready and helpful hospitality.

STUDENTS AND FEES.

Session 1938–39.

The number of students, other than Evening and Vacation Students, who registered during the Session 1938–39 was 2880, which was an increase of 59 on the figure for the preceding session. There were 574 Postgraduate and Research Students, as compared with 567 in the previous session. The number of Evening Students was 182, showing a decrease of 15. Vacation Courses were attended by 199 persons (of whom 145 were not regular students of the College), as compared with 212 in the previous session. Adding these figures together, and after allowing for numbers appearing in two categories, the total number of registered students was 3207, which was an increase of 47 on the previous year.

In the 1938 Report a decrease of 124 on the figure of the preceding Session was recorded, a fact which makes the student entry of 1938–39 still more satisfactory. The number of Postgraduate and Research Students (574) continued to maintain the upward trend which had been noted since 1933–34. In regard to Undergraduate Students, the number taking general courses in the Faculty of Arts (815) was again below that of the previous session, but numbers in the Slade School of Fine Art, the School of Architecture, and the School of Librarianship remained constant. The figure for the School of Journalism disappeared, owing to the concentration of that School at King's College, as explained in the 1938 Report. The Faculty of Science showed an increase of 54, compared with the Session 1937–38, but was still below the number of 1936–37. On the other hand, the Faculties of Engineering and Laws more than maintained the increases recorded in the last Report, Engineering showing an advance of 40 on the figure of two years ago. The Medical Sciences figure varied but slightly, with a decrease of 6.

The declining figure for Evening Students has been a feature of recent sessions, and is due to the increasing demand for evening degree courses, which are not provided at the College, rather than for diploma courses.

The Vacation Course figures refer to the Summer of 1938. That for Anatomy and Physiology shows a decrease of 24 on the preceding Vacation, when the number was exceptionally high. The international situation preceding the outbreak of war had the effect of increasing the number attending the shorter Vacation Course in Spoken English for Foreign Students in place of the longer courses provided during the session.

The following table, with figures for the preceding session in brackets, shows the distribution of the students and the rise or fall in numbers :—

	Men.	Women.	Total.
I. Faculty of Arts.			
(*a*) General	383 (398)	432 (444)	815 (842)
(*b*) Department of Fine Arts.	81 (78)	194 (197)	275 (275)
(*c*) School of Architecture	101 (93)	26 (34)	127 (127)
(*d*) School of Librarianship	55 (51)	80 (85)	135 (136)
(*e*) School of Journalism	— (11)	— (3)	— (14)
II. Faculty of Science	281 (248)	117 (96)	398 (344)
III. Faculty of Medical Sciences	204 (213)	70 (67)	274 (280)
IV. Faculty of Engineering	153 (124)	1 (1)	154 (125)
V. Faculty of Laws	120 (104)	8 (7)	128 (111)
VI. Post-Graduate and Research	463 (453)	111 (114)	574 (567)
Total	1841 (1773)	1039 (1048)	2880 (2821)
VII. Arts (Evening)	97 (101)	85 (96)	182 (197)
VIII. Vacation :			
(*a*) Anatomy and Physiology.	61 (82)	16 (19)	77* (101)
(*b*) Phonetics	58 (46)	64 (65)	122† (111)
Total	2057 (2002)	1204 (1228)	3261 (3230)
Less numbers appearing in two categories	41 (54)	13 (16)	54 (70)
	2016 (1948)	1191 (1212)	3207 (3160)
IX. Students of other Colleges who attended Inter-Collegiate Lectures	391 (387)	209 (190)	600 (577)
Grand Total	2407 (2335)	1400 (1402)	3807 (3737)

There were 1867 (1729) Students working for Degrees and 607 (601) for Diplomas.

The total fee revenue for the Session 1938–39 amounted to £83,188 9*s*. 4*d*., an increase of £5,627 13*s*. 2*d*. as compared with the previous Session.

The Current Session (1939–40).

The inevitable fluctuation in numbers attendant on the distribution of the work of the College among many centres makes it difficult to give an exact figure for the entry of students in the current session.

The following table, which was drawn up as soon as practicable after the initial arrangements were completed, was received by the College Committee at a meeting held on 19th December, 1939. It shows the distribution of the Faculties, and also how, mainly by reason of the Government's policy of not calling up men between

* Figure includes 50 students (37 men and 13 women) also included under III. Faculty of Medical Sciences.

† Figure includes 3 students (men) also included under I. (*a*) Faculty of Arts, and 1 student (man) also included under VII. Evening.

the ages of 18 and 20, in nearly every case the actual numbers were far in excess of those which had been originally anticipated.

UNDERGRADUATE STUDENTS :

	Faculty or Department.	Estimated number. Men.	Estimated number. Women.	Actual number. Men.	Actual number. Women.
Aberystwyth	Arts and Laws, including Economics, and Science students taking Geology, Geography, Psychology or Chemistry for Special B.Sc.	80	300	303	257
Bangor.....	Science, Arts students taking Honours in Mathematics, and First Year Medical.	78	84	122	62
Cardiff	Second Year Medical (Men)	130	—	106	—
Swansea....	Engineering	27	—	103	—
Sheffield....	Second Year Medical (Women).....	—	40	—	35
Cambridge..	Architecture	16	11	70	22
Oxford	Slade School of Fine Art	3	30	44	60
		334	465	748	436

First Year Students had to be refused admission, owing to lack of accommodation, as follows :—Science 41 ; Medical Sciences, 31 ; Engineering, 30.

POSTGRADUATE STUDENTS : It had been decided that until undergraduate students had as far as possible been accommodated no postgraduate students should be received. Arrangements were made with other Colleges for certain advanced students to continue their postgraduate work there. It was eventually found possible to make room for a number of postgraduate students in the Faculty of Arts, and in Chemistry, at Aberystwyth. At the time when the above table was compiled, 60 of these were continuing their studies.

FINANCE.

GENERAL FINANCES.

Financial Year 1938–39.

The Accounts for the year ended 31st July, 1939, are appended to this Report (Appendix I.).

College Establishment Income and Expenditure Account.

Income.—The ordinary income increased by £9,347 9*s.* 11*d.*, from £241,672 10*s.* 5*d.* to £251,020 0*s.* 4*d.* The main increases were under Fees (£5,628) and appropriations from Special Funds (£2,672).

Expenditure.—The ordinary expenditure increased by £722 13*s.* 5*d.* from £242,229 6*s.* 1*d.* to £242,951 19*s.* 6*d.* All the principal main heads showed a decrease except Departmental Maintenance, which increased by £1,946.

The excess of ordinary income over ordinary expenditure was thus £8,068 0*s.* 10*d.* After providing a net amount of £366 for the Pension Reserve Fund and £3,730 for extraordinary expenditure not covered by extraordinary income, there was a final surplus of £3,972 2*s.* 5*d.*

The accumulated balance in the Income and Expenditure Account was therefore increased from £2,714 13*s.* 1*d.* to £6,686 15*s.* 6*d.*

OBITUARY.

Professor Emeritus Ernest Arthur Gardner, Litt.D.

The death, on 27th November, 1939, of Professor Emeritus Ernest Arthur Gardner has removed an outstanding figure of the past in the College and the University. He occupied the Yates Chair of Archæology from 1896 to 1929. Prior to that, he was a Fellow of Gonville and Caius College, Cambridge (1885 to 1894), and was Director of the British School of Archæology at Athens (1887 to 1895). His high reputation, his wide experience, and his writings made him a recognised leader in the field of Greek Art and Archæology. An academic integrity characterised all his work and earned for him the respect and affection of his colleagues and his students. His careful production of Greek Plays (in Greek) in the Botanical Theatre, the *Medea* of Euripides among them, were memorable College events for the students who took part in them and for the members of the audience. The active co-operation of his wife, the late Mrs. Mary Gardner, contributed in no small measure to their success.

Professor Gardner's manner was always quiet and unassuming, but his personality made itself felt throughout the College, in whose counsels he grew to take a leading part. The high esteem in which he was held led to his election to the small body of Honorary Fellows of the College in 1928.

He did important work in the wider sphere of University affairs, holding the office of Vice-Chancellor from 1924 to 1926 and that of Dean of the Faculty of Arts during the two periods 1905–9 and 1913–15. He was Public Orator of the University until 1932.

His knowledge of modern Greek was placed at the disposal of his country during the Great War, and he was on active service at Salonika, as Lieut.-Commander, R.N.V.R., from 1915 to 1917. He was awarded the Gold Cross of the Greek Order of the Redeemer in 1918. He was President of the Hellenic Society from 1929 to 1932 and Joint Editor of the Journal of Hellenic Studies during the long period of 1897 to 1932.

Mr. G. I. H. Lloyd, M.A.

The College Committee suffered a great loss by the death of Mr. G. I. H. Lloyd on 9th February, 1939. He had only served on its body for a short time, for he did not join it until 1933, and was absent for some two years after that, but his keen interest and prudent judgment were quickly appreciated and his gift for friendliness, expressed in the simple directness of his manner, had from the first won for him the affection of his colleagues. His wide experience as Director of the Trades and Economic Division of the Department of Overseas Trade was of the greatest value. In the words of a resolution adopted by the College Committee on 7th March, 1939, he brought to its counsels " a rich store of experience of Academic and Government Service . . . During his two short periods of service with the Committee he had, by his sympathetic understanding of all the problems of a great College and by his own personal worth of character, already created for himself a place in the work of the College."

When he was called to Geneva for Government service at the end of 1935, and he knew that his absence was likely to be prolonged, he offered to resign his seat on the Committee, but there was a unanimous desire that he should retain it. His return at the end of 1937 was warmly welcomed. Resuming his former regular attendances, he was present at the last meeting held before his lamented and untimely death.

Mr. Wilfred Trotter, M.D., Hon.LL.D.(Edin.), D.Sc.(Liv.), F.R.C.S., F.R.S.

A further grievous loss fell on the College Committee, and on the College community as a whole, by the death, on 25th November, 1939, of Mr. Wilfred Trotter.

Mr. Trotter was a distinguished *Alumnus* of the Faculty of Medicine, his first entry as a student dating back to 1891. In 1899 he was Gold Medallist and University Scholar in Surgery. He was Demonstrator in Anatomy from 1904 to 1906. He was elected to the Fellowship of the College in 1906. His long association with University College Hospital as one of its most eminent surgeons and, from 1935 to 1938, as its Professor of Surgery and Director of the Surgical Unit, enabled him to maintain unbroken contacts with his old College. When he accepted in 1927 an invitation to join the College Committee, he brought with him a knowledge of the traditions of his day which was of the greatest value. A man of few words at the council table, he generally contented himself with following the debate rather than taking part in it, and only speaking when he had something definite to say, but when he did speak his words carried great weight.

Much was written at the time of his death of his work as a surgeon and of the many other great services he rendered to his profession, as a member of the Medical Research Council and of numerous special committees. His Majesty King George V. had recognised his high standing by appointing him his Honorary Surgeon in 1928, an office which he held until 1932, when he was appointed Sergeant Surgeon to the King. The College Committee might pay high tribute to his skill as a surgeon and to his distinction as a scientist. Here they would desire to record their appreciation of the services of a devoted son of the College who was held in affectionate esteem by all who knew him.

Professor Herbert Henry Woollard, M.D., D.Sc., F.R.S.

The sudden death of Professor H. H. Woollard in the South Cloisters on 18th January, 1939, came as a profound shock to the College community.

Professor Woollard's first connection with the College dated back to the Session 1918–19, when, after a distinguished career in the Great War of 1914–18, he entered as a postgraduate student. He was appointed Demonstrator in Anatomy in the following session and was Senior Demonstrator from 1920 till 1923, when he received the title of Assistant Professor. In 1927 he left the College to return to his own home country of Australia, as Professor of Anatomy at the University of Adelaide. His appointment to the Chair at St. Bartholomew's Hospital Medical College brought him back to this country in 1929. It was a matter of general satisfaction to his many friends at University College when he accepted appointment as successor to his former chief, Sir Grafton Elliot Smith, on the latter's retirement from the Chair of Anatomy in 1936. On the retirement of Professor J. P. Hill from the Chair of Embryology at the end of the Session 1937–38, Professor Woollard became Head of the Department of Anatomy and Embryology.

Possessed of a remarkable capacity for hard work, he imposed heavy taxes upon his strength, never sparing himself when he saw a task which should be done. He placed the College Committee still further in his debt when he reassumed, as Professor, the office which he had held effectively in his earlier days at the College, viz., that of Sub-Dean and Tutor of his Faculty. He did this all the more readily because it brought him into closer contact with the individual student and his problems. That every student of the College should have the fullest opportunity for the development of a healthy mind in a healthy body was a matter of deep concern to him, and at the time of his death he was actively engaged on the completion of a Student Health Service scheme which he had devised in collaboration with members of University College Hospital and

its Medical School, and which had received the general approval of the College Committee. His public-spirited interest in all matters pertaining to the College brought him friendships in every Faculty, and in spite of all his scientific and administrative preoccupations he was always ready to discharge to the full his social duties as a member of a large community.

His eminence as a scientist and the value of his researches were recognised by the Royal Society in 1938, when he was elected a Fellow of that Society. He was awarded the Symington Prize for Anatomical Research in 1936.

The following is an extract from a resolution adopted by the College Committee at their meeting on 7th February, 1939 :—

> " By the distinction and value of his research work, and by the unstinted services which he gave to the College as a brilliant teacher, as Sub-Dean and Tutor to Medical Students, and as the Head of a large department with a splendid tradition which he more than maintained, he will ever be gratefully remembered. He leaves behind him memories of loyal service well and truly performed, and a vacancy that his colleagues and friends feel can never adequately be filled."

A Memorial Service held at St. Pancras Church on 23rd January, 1939, was attended by a large congregation of members of the University and its Colleges and of the scientific bodies with which Professor Woollard had been connected.

SANKEY,
Chairman.

APPENDIX I.

UNIVERSITY OF LONDON, UNIVERSITY COLLEGE.

ACCOUNTS

For the Year ended 31st July, 1939.

College Establishment—Income and Expenditure.

General Balance Sheet.

UNIVERSITY OF LONDON,

Dr. COLLEGE ESTABLISHMENT INCOME AND EXPENDITURE

EXPENDITURE.		1938-39. £ s. d.	1938-39. £ s. d.	1937-38. £ s. d.
I. Ordinary Expenditure :—				
***To* Administration :—**				
Salaries of Administrative Officers and Clerical Staff (including Insurance)		12,694 3 11		12,951 13 1
Payments for Superannuation and Pension on behalf of Administrative Staff		1,239 3 9		1,124 7 10
Advertising		344 4 10		288 11 8
Printing, Stationery, Postages and Telephone		3,112 8 1		3,313 17 4
Audit and Legal Fees		364 11 8		312 4 6
Other Expenses		140 8 3		127 14 2
			17,895 0 6	18,118 8 7
***To* Departmental Maintenance :—**				
Salaries of Teaching Staff :—				
Professorial	£45,860 2 10			
Non-Professorial	76,247 2 3			
		122,107 5 1		121,296 15 8
Payments for Superannuation and Pension on behalf of Teaching Staff		11,049 15 9		10,793 11 3
Public Lectures		520 0 0		875 13 0
Departmental Wages (including Insurance)		12,617 18 0		12,862 9 7
Departmental and Laboratory Maintenance met from General Income		8,847 11 1		8,442 10 11
Departmental and Laboratory Maintenance met out of Apparatus Reserve Fund		3,906 6 7		3,322 18 4
Departmental and Laboratory Maintenance met out of Trust and Special Funds and Donations		4,082 2 0		3,519 16 6
Salaries of Librarian and Library Staff		3,787 6 1		3,727 2 11
Payments for Superannuation and Pension on behalf of Library Staff		304 10 0		282 10 0
Libraries		4,191 18 1		4,345 7 1
			171,414 12 8	169,468 15 3
***To* Maintenance of Premises :—**				
Rates and Insurance		9,991 18 7		9,349 0 6
Heat, Light and Water (including Wages of Stokers)		8,861 8 4		9,208 18 8
Ordinary Repairs and General Maintenance of Buildings		6,301 18 1		8,676 18 4
Wages of Porters and Attendants,(including Insurance)		10,098 8 2		9,878 9 9
Grounds		170 18 8		181 7 7
Household Stores		515 16 10		541 6 7
Crabb Robinson Fund (for Athletic Grounds, Halls, etc.) (*per contra*)		201 10 0		211 10 0
			36,141 18 8	38,047 11 5
***To* Pensions :—**				
To Retired Members of Staff, met out of :—				
Trust Funds (*per contra*)		425 0 0		412 10 0
General Income		700 0 0		700 0 0
To Retired Servants, met out of General Income		1,350 0 0		1,350 0 0
			2,475 0 0	2,462 10 0
***To* Other Educational Expenses :—**				
Examiners' Fees			78 15 0	83 9 6
***To* Rents and Other Payments for Use of Buildings**			2,084 7 3	2,172 7 3
***To* Fellowships, Scholarships, and Prizes :—**				
From Endowments		3,094 3 3		2,679 2 5
From General Income		1,351 12 5		1,245 8 10
From General Income (Exhibition Bursaries and Special Fee Remissions) (*per contra*)		478 12 0		333 8 0
From Special Donations (*per contra*)		1,185 8 5		826 14 8
From War Memorial Fund		20 0 0		60 0 0
			6,129 16 1	5,144 13 11
Carried forward			£236,219 10 2	£235,497 15 11

UNIVERSITY COLLEGE.

Account for Year ended 31st July, 1939. *Cr.*

INCOME.	1938-39. £ s. d.	1938-39. £ s. d.	1937-38. £ s. d.
I. Ordinary Income :			
By Endowments (Trust Funds) :—			
Appropriated for Salaries and Superannuation of Teaching Staff	12,471 9 4		11,992 0 9
Appropriated for Scholarships and Prizes	3,094 3 3		2,679 2 5
Appropriated for Faculty of Medical Sciences (Holme and Rockefeller Sustentation Funds)	14,781 6 8		14,454 0 0
Appropriated for Chemical Engineering and Galton and Biometric Laboratories	6,216 7 7		6,063 6 10
Appropriated for Athletic Grounds, Halls, etc. (Crabb Robinson Fund) (*per contra*)	201 10 0		211 10 0
Appropriated for Retired Professors' Pensions (*per contra*)	425 0 0		412 10 0
Appropriated for purposes other than above	5,972 19 3		6,116 17 9
		43,162 16 1	41,929 7 9
By Donations and Subscriptions :—			
Appropriated for General Purposes	1 10 0		1 10 0
Appropriated from Donations for Special Purposes	1,097 15 2		1,575 19 4
Appropriated to meet Scholarships and Bursaries (*per contra*)	1,185 8 5		826 14 8
Appropriated to meet Apparatus charges	279 2 2		238 0 5
Italian Teaching through H.E. the Italian Ambassador	—		300 0 0
		2,563 15 9	2,942 4 5
By Special Funds (appropriated to meet expenditure):—			
Salaries	8,374 0 0		6,497 0 0
Egyptology	56 14 9		67 9 11
Eugenics and Statistics Publications	665 3 11		518 4 6
German Library	90 9 1		117 2 11
Special Apparatus Reserve	3,906 6 7		3,365 8 10
Students' Purposes	1,265 11 3		1,243 1 2
War Memorial Scholarships	105 1 8		104 11 8
Library Deposits	16 17 10		17 17 10
Anatomy Radiography Fund	122 18 1		—
		14,603 3 2	11,930 16 10
By Grants allocated by the Court of the University :—			
Block Grant	108,115 0 0		107,865 0 0
Less Transferred to Special Funds :—			
Salaries £7,675 0 0			
German Library 105 0 0			
	7,780 0 0		7,780 0 0
	100,335 0 0		100,085 0 0
Home Counties Grant	2,585 0 0		2,583 0 0
		102,920 0 0	102,668 0 0
Carried forward		£163,249 15 0	£159,470 9 0

UNIVERSITY OF LONDON,

Dr. COLLEGE ESTABLISHMENT INCOME AND EXPENDITURE

EXPENDITURE (*cont.*).				1938-39.						1937-38.		
	£	*s.*	*d.*	£	*s.*	*d.*				£	*s.*	*d.*
Brought forward				236,219	10	2				235,497	15	11
I. Ordinary Expenditure (*cont.*) :—												
To **Students' Societies** :—												
Payments to Union Societies :—												
University College, London	4,413	5	6							4,188	19	6
University of London	463	5	0							489	5	0
Other Payments from Students' Purposes Fund	185	1	9							209	5	0
				5,061	12	3				4,887	9	6
To **Other Expenses** :—												
Institute of Historical Research—Grant to Library (American History Fund)	94	0	10							108	10	6
Travelling Expenses (Commonwealth Fund)		—								175	10	5
University Observatory	100	0	0							100	0	0
Working Men's Societies (Peel Fund)	66	10	9							15	8	0
Miscellaneous Expenditure	1,410	5	6							1,444	11	9
				1,670	17	1				1,844	0	8
To Excess of Ordinary Income over Ordinary Expenditure carried forward				8,068	0	10				—		
				£251,020	0	4				£242,229	6	1

UNIVERSITY COLLEGE.

Account for Year ended 31st July, 1939 (*cont.*). *Cr.*

INCOME (*cont.*).	1938-39. £	s.	d.	£	s.	d.	1937-38. £	s.	d.
Brought forward				163,249	15	0	159,470	9	0
I. Ordinary Income (*cont.*) :—									
By Grants received through the Court of the University :—									
Chadwick Trustees				200	0	0	200	0	0
By Fees :—									
General (including £3,302 4*s.* 7*d.* for Intercollegiate Teaching)	83,234	8	7				77,877	10	10
Examination and Registration Fees	579	5	9				583	5	0
Fees in consideration of Exhibition Bursaries and Special Fee Remissions (*per contra*)	478	12	0				333	8	0
	84,292	6	4				78,794	3	10
Less Intercollegiate Fees paid	1,103	17	0				1,233	7	8
				83,188	9	4	77,560	16	2
By Other Income :—									
Interest and Dividends :—									
Bank and other Interest	125	19	10				73	12	3
Maintenance Fund (including Bawden)	866	13	1				866	13	1
Houses and Land	1,471	6	2				2,083	4	6
Societies (for Service, etc.)	171	0	6				128	13	3
Lockers	381	10	0				382	0	6
Sale of Calendars, etc.	7	5	2				8	6	5
Administration Charges	111	0	0				117	0	0
Keys	139	6	4				249	7	1
University of Cambridge—Retaining Fee in respect of Lectures in Scandinavian Languages	75	0	0				75	0	0
Miscellaneous	1,032	14	11				457	8	2
				4,381	16	0	4,441	5	3
By Excess of Ordinary Expenditure over Ordinary Income carried forward				—			556	15	8
				£251,020	0	4	£242,229	6	1

UNIVERSITY OF LONDON,

Dr. COLLEGE ESTABLISHMENT INCOME AND EXPENDITURE

EXPENDITURE (*cont.*).	1938-39. £	s.	d.	1937-38. £	s.	d.
To Excess of Ordinary Expenditure over Ordinary Income brought forward		—		556	15	8
II Extraordinary Expenditure :—						
To Pension Reserve Fund	366	0	0	366	0	0
,, Cost of Fireproofing Library Floor	666	13	1		—	
,, Amount written off cost of Boiler in Foster Court	1,000	0	0	500	0	0
,, Medical Sciences Buildings and Equipment (Rockefeller Foundation Benefaction)	510	9	10	498	14	10
,, Crabb Robinson—Cost of Dilapidations and Surveyors' Charges on vacating part of Dr. Williams' Library	136	11	6		—	
,, Cost of Air Raid Precautions	568	8	7		—	
,, Preparation for Evacuation	230	16	11		—	
,, Construction of new Store on Chemistry Roof	369	19	4		—	
,, Amount written off cost of Great Hall Tunnel	600	0	0		—	
,, Faculty of Engineering—Improvement in Accommodation	442	9	0		—	
,, Repairs to Chemistry Boilers	74	2	2		—	
,, Apparatus for Soil Mechanics Research	50	0	0		—	
,, Chemistry Department—Research (Imperial Chemical Industries Ltd.)	2	10	0	184	5	4
,, New Locker Room and Lockers		—		304	7	11
,, Foster Court—Cost of Alterations		—		2,712	11	4
,, Installation of Permanent Wiring for Floodlighting Dome and Portico		—		87	8	9
,, Balance being Excess of Income over Expenditure carried to Balance Sheet	3,972	2	5		—	
	£8,990	2	10	£5,210	3	10

UNIVERSITY COLLEGE.

Account for Year ended 31st July, 1939 (*cont.*). *Cr.*

INCOME (*cont.*).	1938-39. £	s.	d.	1937-38. £	s.	d.
By Excess of Ordinary Income over Ordinary Expenditure brought forward	8,068	0	10		—	
II. **Extraordinary Income :—**						
By Rockefeller Foundation Benefaction—Appropriated towards Cost of Apparatus and Alterations in Medical Sciences	510	9	10	498	14	10
,, Heating Reserve—Appropriated towards Cost of Repairs to Chemistry Boilers	74	2	2		—	
,, Chadwick Trustees—Capital Grant Appropriated towards Cost of Apparatus for Soil Mechanics Research.	50	0	0		—	
,, Chemistry Department—Research (Imperial Chemical Industries Ltd.)	2	10	0	184	5	4
,, University of London—Grant towards cost of Alterations in Foster Court		—		2,070	16	9
,, Appropriation from Donations towards Cost of Alterations in Foster Court		—		1	0	0
,, H. L. Jackson Gift Fund—Appropriated towards Cost of Fireproofing Library Floor	285	0	0		—	
,, Balance, being Excess of Expenditure over Income carried to Balance Sheet		—		2,455	6	11
	£8,990	2	10	£5,210	3	10

UNIVERSITY OF LONDON,

General Balance Sheet of the

LIABILITIES AND CAPITAL.

	£	s.	d.	£	s.	d.
College General Capital Account :—						
Balance, 31*st July*, 1938	736,999	7	8			
Add: Endowment of Teaching—Dividends Invested	177	2	5			
				737,176	10	1
Trust Funds	971,712	13	0			
Less University College General Account	561	1	4			
				971,151	11	8
Redemption Fund Accounts				39,193	1	3
Miscellaneous Capital Funds :—						
Completion of Engineering Laboratories Account	205	1	2			
Gower Street Front Fund	206	12	0			
H. L. Jackson Gift Fund	2,000	0	0			
Rockefeller Site Building and Equipment Account	9,755	17	9			
Endowment of Teaching Fund	62	2	6			
				12,229	13	5
Superannuation Funds held on behalf of Beneficiaries				1,987	1	8
Loan Fund Accounts :—						
College	234	5	2			
W. W. Rouse Ball	462	6	9			
Madeleine Cole	70	19	9			
M. J. M. Hill	82	13	0			
				850	4	8
Pension Reserve Fund				5,726	4	4
Special Fund Accounts :—						
Salaries Fund	9,806	14	2			
Eugenics and Statistics Publications Funds	3,149	12	2			
School of Librarianship	2,695	3	1			
German Library	61	16	4			
Special Apparatus and Equipment Reserve Fund	9,078	15	5			
Other Apparatus and Equipment Reserve Fund	374	16	0			
Students' Purposes Fund	1,257	14	7			
Egyptology Fund	318	16	9			
Library Deposits	216	16	5			
				26,960	4	11
Unexpended Balances of Grants and Donations	.....			1,620	15	4
Suspense and Deposit Accounts :—						
Keys Deposits	300	0	0			
Fees Suspense	1,931	1	0			
				2,231	1	0
Sundry Creditors	.....			4,777	11	9
Income and Expenditure Account :—						
As per Balance Sheet, 31st July, 1938	2,714	13	1			
Add Excess of Income over Expenditure for the year ended 31st July, 1939	3,972	2	5			
				6,686	15	6
				£1,810,590	15	7

We have examined the above Balance Sheet and relative Income thereto, and certify them as being properly drawn up and in accordance

3, Frederick's Place, Old Jewry, London, E.C. 2.
1st December, 1939.

UNIVERSITY COLLEGE.

College at 31st July, 1939.

ASSETS.

		£ s. d.	£ s. d.
College Freehold Lands, Buildings, Furniture, Library, etc., being Land with the Buildings of the College and the Buildings Extensions		699,111 18 4	
Great Hall—Cost of All Saints' Church	£6,462 8 10		
Cost of Reconstruction, Alterations, and Furnishing to 31st July, 1932.	23,716 8 9		
		30,178 17 7	729,290 15 11
Freehold and Leasehold Property :—			
1 Gordon Street—House Account		3,401 1 0	
114 & 116 Gower Street Houses Account		7,019 17 3	
Foster Court—Cost to 31st July, 1932		30,267 3 1	
"Hawarden Castle" Account		2,365 6 2	
21 Gordon Square—Cost of Lease		2,633 14 6	
24 ditto ditto and Equipment.		1,333 1 11	
			47,020 3 11
Investments at book value		.....	43,640 5 10
Trust Funds		.....	971,712 13 0
Expenditure in Advance, including Maintenance Works in progress		.....	481 0 8
Sundry Debtors and Outstanding Accounts		.....	1,534 14 11
Deferred Extraordinary Expenditure :—			
Cost of new Boiler, Heating Improvements and Great Hall Tunnel		4,656 17 2	
Less Written off		2,600 0 0	
			2,056 17 2
National Insurance Stamp Account :—			
In hand and on deposit with Insurance Commissioners		.....	1,329 15 8
Cash at Bank—On Deposit		863 7 10	
On Current Account		12,511 0 8	
Petty Cash Account		150 0 0	
			13,524 8 6
			£1,810,590 15 7

and Expenditure Account with the books, accounts, and vouchers relating therewith.

(Signed) PRICE, WATERHOUSE & CO.,
Chartered Accountants.

APPENDIX II.

GRANTS (1938–39).

Grants allocated by the Court of the University :—

		£	s.	d.
Block Grant		108,115	0	0
Home Counties Grant :—				
Buckingham County Council	43 0 0			
Essex County Council	224 0 0			
Hertford ,,	157 0 0			
Kent ,,	323 0 0			
Middlesex ,,	1,291 0 0			
Surrey ,,	437 0 0			
Croydon Borough Council	52 0 0			
East Ham ,,	7 0 0			
West Ham ,,	20 0 0			
Southend ,,	31 0 0			
		2,585	0	0
		£110,700	0	0

Grant received through the Court of the University :—

Chadwick Trustees	200	0	0
Do. (Capital Grant)	50	0	0
	£110,950	0	0

SUBSCRIPTIONS AND DONATIONS (1938–39).

(For Special Purposes.)

	£	s.	d.
Batsford, Messrs. B. T., Ltd.	5	5	0
Foyle, Messrs. W. & G., Ltd.	5	0	0
Gladstone Memorial Trust	10	0	0
Imperial Chemical Industries	400	0	0
Incorporated Institute of British Decorators	5	5	0
Joseph Rowntree Village Trust	100	0	0
Leverhulme, The Trustees of the late Viscount	750	0	0
Morison, Stanley, Esq.	100	0	0
Nether Pollok, Ltd., Messrs.	100	0	0
New Commonwealth Institute	100	0	0
Rockefeller Foundation	1,200	0	0
Sieff, I. M., Esq.	260	13	9
Carried forward	£3,036	3	9

		£	s.	d.
Brought forward		3,036	3	9
Donations towards Students' Loan and Bursary Fund :—				
Ashmole, Professor B.	2 0 0			
Bellot, Professor H. H.	1 0 0			
Davis, Miss E. Jeffries	1 1 0			
Haas, Dr. P.	2 2 0			
Hill, Professor T. G.	1 0 0			
Hopkins, Dr. Pryns	2 0 0			
Ingold, Professor C. K.	1 0 0			
Jolowicz, Professor H. F.	3 0 0			
King, Professor W. B. R.	1 1 0			
Salisbury, Professor E. J.	2 0 0			
Tillotson, G., Esq.	2 2 0			
Woollard, The late Professor H. H.	1 1 0			
Wren, T. L., Esq.	2 0 0			
Amounts under £1	4 5 0			
		25	12	0
		£3,061	15	9

SUBSCRIPTIONS AND DONATIONS (1939–40)

(already received for special purposes).

	£	s.	d.
Astor, The Hon. J. J.	500	0	0
Bawden Fund	320	0	0
Leverhulme, The Trustees of the late Viscount	750	0	0
New Commonwealth Institute	50	0	0
Slade Society	5	0	0
	£1,625	0	0

APPENDIX III.

ASSEMBLY OF THE FACULTIES OF UNIVERSITY COLLEGE, LONDON.

6TH JULY, 1939.

CHAIRMAN: The Rt. Hon. the VISCOUNT SANKEY OF MORETON, P.C., G.B.E., D.C.L., LL.D., Chairman of the College Committee.

SPECIAL VISITOR: Sir HENRY DALE, C.B.E., M.D., D.Sc., LL.D., F.R.C.P., F.R.S., Director of the National Institute for Medical Research.

REPORT OF THE PROVOST ON THE SESSION 1938–39.

The session 1938–39 opened immediately after a time of crisis and it closes in times which are certainly no less serious, and my first word must be one of warm tribute to the steadiness with which all members of the College, staff and students alike, have pursued their daily work in spite of these distracting and disturbing elements. Preparations for the evacuation of the College and for the carrying on of its work elsewhere in the event of war, have eaten considerably into the time and energies of many of us. The happiest feature in that business has been the ready helpfulness of the receiving colleges and universities in making arrangements for us. In the event of war, we shall be distributed among four universities, Wales, Oxford, Cambridge, and Sheffield, and I should like very specially to thank the Vice-Chancellor of the University of Wales, and its four constituent colleges, who are carrying by far the greater part of the burden, for their helpful co-operation.

In my report last year, I spoke for the second time of a slight fall in numbers. I am glad to say that this year, in spite of the September crisis, our numbers have gone ahead again and we have made up much of our lee-way, alike in numbers and in fee revenue.

The problem of the appropriate housing of all the varied college activities still remains acute. The occupation of No. 1 Gordon Street has given us an appropriate house for the Department of Philosophy, with a few rooms to spare for other purposes. During the Long Vacation we are hoping to make a small contribution towards the needs of Chemistry and to help Engineering by certain alterations within their own territory, but we can still do nothing towards the re-housing of Botany and Geology in Foster Court, and the additional housing of Physiology which is contemplated there, nor can we do anything for those departments, such as English, Electrical Engineering and the Library, to name but a few, which are badly in need of fresh room, but cannot have it until the departments already named have moved to Foster Court.

We are, however, making one great improvement in student accommodation next session by the creation of yet another Refectory, in addition to the Upper and Lower Refectories. When we return in the autumn, students will find a large Refectory, at present still awaiting its name, which will, we hope, solve the problem of queueing, and enable still larger numbers to benefit by the good, cheap meal which is now provided in the middle of the day. In speaking of the Refectory, may I pay a word of tribute to the great services rendered to us during the last three years by Miss Small as our Steward. No college could, I think, be blessed with a more efficient or a more acceptable Steward, qualities which do not always go together. We all regret the forthcoming departure of her assistant, Miss Cusack, to take up the post of Domestic Steward at Gonville and Caius College, Cambridge, but we consider the appointment an honour alike to her and the College Refectory, and offer her our warm congratulations and good wishes.

On the personal side, the College has suffered two great losses. It has lost by death, Dr. Herbert Woollard, Professor of Anatomy, in the fullness of his powers as a teacher and research worker. No man worked harder or more unselfishly than he did. No man was more passionately devoted to the College than he was. No man was more eager in his devotion to his students and his younger staff.

The other loss came from the resignation of Mr. Douie, Secretary of the College for the last twelve years. His work was always

directed towards making the College a better and happier and more humane seat of learning, and he was the good friend of all sections of the staff alike, academic, administrative, and servant.

As successor to Professor Woollard, we have had the good fortune to secure Professor Le Gros Clark, at present Professor of Anatomy in the University of Oxford. As successor to Mr. Douie, we welcome Mr. Tanner, already well known to us as Finance Secretary of the College.

The passage of time has brought to an end the tenure of the Fielden Chair of French by Professor Brandin. He was the first holder of that Chair, and, by his single-minded devotion to the advancement of French Philological Studies in this College and University, has established a great tradition. To Madame Brandin we owe the establishment of the annual competition between the students of the various colleges in the production of French plays, a competition which has been of the greatest service in establishing a high tradition of spoken French and of French acting in this University. To them both we offer all good wishes for their future happiness.

In German we lose Dr. Perrett, who has been with us for 33 years. He played his part in the great days of Robertson and Priebsch in making the School of German in this College and University the leading School in the universities of Britain.

In Anthropology we are losing, through ill-health, Dr. Perry. Dr. Perry's services were secured for this College by the late Sir Grafton Elliot Smith. He worked with him for many years. His researches on the Diffusion of Culture and on the Continuity of Dynastic Rule throughout the World, and his application of the Geographical Method to the solution of problems of Cultural Anthropology, have placed him in the front rank of workers in this field. We deeply regret that physical ill-health has compelled him to retire.

Before I pass to the work of the Faculties, may I say a word of the pious care which the College has given this year to the auto-ikon of its patron saint—Jeremy Bentham ? We had been troubled for some time past by the dirt which had accumulated upon his mask and clothes, and still more by the damage caused by moths, and the general dilapidation of his garments. We decided to entrust the whole business of cleaning and restoring the auto-ikon

and its coverings to the Department of Egyptology. Set forth with all the scientific exactitude which characterizes the work of that department, I have the report upon the figure as received. I give you a few items :—

Wax Mask : thick coating of dirt over the features.

Straw Hat, with black ribbon band : very dusty.

Coat—black cloth : very dusty, badly moth-eaten.

Breeches—fawn cloth : seat cut away to allow passage of brace supporting skeleton ; very soiled and moth-eaten ; fragile condition.

Shirt—white linen : marked " J. Bentham 3 " in red cross-stitch. Pleated ruffle. Torn at neck ; one shirt tail cut or torn away ; very dirty.

Undershirt—wool : ravaged by moth and hardly holding together.

Under-drawers—cotton : need washing and patching.

Stockings : one pair white cotton marked " J. B." in red cross-stitch, need washing. One pair under-stockings, wool ; very much darned, need washing. One pair socks, wool, in good condition.

The skeleton was padded with cotton-wool, wood-wool, straw, hay, and paper ribbon. Inside was a bunch of lavender and a paper bag containing naphthalene. The padding was crudely done and quite out of proportion to the size of the frame.

The skeleton has now been restuffed into the right proportions according to contour measurements given by Dr. Fielding. Our old friend George Hancock, of the Dissecting Room of the Department of Anatomy, examined the articulation of the skeleton and decided that it was unnecessary to restring it, but the whole skeleton has been painted with a solution of cellulose nitrate such as I understand has been successfully used in treating pre-historic Egyptian remains.

The clothes have, thanks to the skill and advice of Mr. Brett of the Victoria and Albert Museum and the lively interest of the Sketchley Dye Works, been successfully cleaned and restored, and treated with paradichlorbenzene which, I am assured, renders fabrics so unpalatable that they are not likely to be damaged by moth.

The general direction of all the work was in the hands of Miss Lafleur, Hon. Museum Assistant in the Department. To her the College and the shades of Jeremy Bentham owe a deep debt of obligation. To Dr. G. R. Lomer, Librarian of McGill University, Montreal, a Benthamite enthusiast, who was visiting the College when the sad state of Jeremy Bentham's under-garments was first revealed, we owe the pious tribute of a new under-shirt.

Turning to the reports of the various Faculties, I must first note the flourishing condition of the Department of Architecture which, alike in the number and the quality of its students, is very much alive at the present time. Happy is the Department of Architecture which is placed in a great College such as this, where it can secure from so many other departments help in all the varied aspects of its work. I note how the Department of Engineering provides courses in Surveying and Levelling, showing the young architect how to prepare the ground for his buildings, courses in Structural Engineering, which will enable him to build houses and other buildings which will not collapse, courses in Heating and Ventilating, lest he build houses in which we perish with cold, or are suffocated by lack of air, courses in Illumination which will enable him to understand all the newest ways of lighting houses, and courses in the Chemistry of Painters' Materials, such as will assure good and lasting decoration of the walls and woodwork.

In the Slade School I note that four old students of the Slade have become full members of the Royal Academy and one has become an associate member, while, in the words of Professor Schwabe, "There have been none of those resignations which have become almost customary." Last autumn Mr. Polunin had a very successful exhibition of the work of the Stage Painting section of the Slade School which has now been running for some ten years, and we were able to provide him with an ideal gallery for that display in Foster Court.

Last year I spoke of all that Sir Robert Mond had done for our Department of Egyptology. He was present with us on that occasion and, shortly after, was honoured by the University with the Honorary degree of Doctor of Letters. It is sad to reflect that he is now no longer with us, but, through the generosity of Lady Mond, we shall still have, for a further year, the services of Dr. Baumgärtel. How important these are, you will realize

when I tell you that, in the arrangement of the Museum, she has, amongst other work, registered some 2,500 objects. Miss Lafleur, an honorary worker in that department, of whom I have already made mention, has also, in the laboratory, dealt with more than 900 objects which needed cleaning or restoring. In addition to this, she has photographed some 500 objects, and over 3,000 additional prints have been made.

In the Department of Archaeology we have come to a happy arrangement whereby Professor Ashmole now combines the position of Professor of Archæology and Honorary Keeper of Greek and Roman Antiquities in the British Museum. If you visit his department to-day you will find an exhibition of photographs of the wonderful discoveries of lost temples in Syria made by Professor Claude Heithaus, who is working under the auspices of this Department.

In the Department of English we must offer our warm congratulations to Professor R. W. Chambers on the welcome that has been given on all hands to his new book 'Man's Unconquerable Mind,' and we note with what complete appropriateness he has been made the first W. P. Ker Memorial Lecturer in the University of Glasgow. We must also congratulate Professor Sisson on his tenure of the Sandars Lectureship in Bibliography in the University of Cambridge, and on his gift for choosing coney-catching titles when he concealed what might have been deemed the dry bones of bibliography under the title of "The Judicious Marriage of Mr. Hooker and the Birth of the Laws of Ecclesiastical Polity."

In the modern language departments one is glad to note that, in spite of troubled conditions, the numbers of students starting in German and Italian has definitely increased, while in the Department of French, one would like to offer a warm welcome to Professor Woledge, who will carry on the philological traditions established by Professor Brandin.

In the Department of Phonetics we have lost to the School of Oriental Studies Mr. J. R. Firth, just as we lost, some few years ago, Professor Lloyd James, but we cannot grudge Mr. Firth the wider opportunities which his position at the School of Oriental Studies gives him in carrying on work in his own particular field, namely, that of the Phonetics of the Indian languages. How wide is the range of study in the Department of Phonetics can perhaps

best be illustrated by noting that, among the languages that have been the subject of special study this session, we have Kikuyu, from Central Africa, Modern Provençal, the Chinese Dialect of Chung-King, Siamese, Judean-Spanish, Japanese, and the Toten Dialect of Norwegian.

The Department of Political Economy, under the guidance of its new Head, Mr. Gaitskell, shows interesting developments. A great deal of its best work is done in Post-graduate seminars. One of these was a seminar dealing with the subject of "Price Fixing in Different Markets," and here a number of City men were invited to attend the seminar and give it the benefit of their experience. The results of this group research are shortly to be published. Another seminar was concerned with War Finance, and here again the Department was fortunate in being able, from time to time, to secure the assistance of distinguished outsiders. The Department is very sorry to lose, at the end of this session, Dr. Barger, who has done good work for us during the last seven years and has finally allowed himself to be lured into accepting an appointment at Columbia University.

From the History Department we hear of the new and interesting experiment whereby courses in Mediæval and Modern European History which are held at the University, have now taken the place of the college courses in those subjects. This arrangement puts at the disposal of the Honours students in this University the full resources of the teaching staff of all the colleges, and it is working well.

In the Department of Mathematics Professor Massey has now been appointed to fill the second professorship in succession to Professor Filon. His colloquium, covering a variety of research subjects in Applied Mathematics, has received very welcome co-operation from members of the University outside the College, and is yet another example of the growing unity in research studies within this University.

In the Faculty of Laws the old part-time Quain Professorship has been replaced by a full-time Quain Lectureship in Jurisprudence, and the appointment of Dr. Friedmann to that Lectureship has considerably strengthened the staff of that department.

When I turn to the Faculty of Science I note first in the Department of Botany a very happy tribute to an old Laboratory

Servant. Professor Hill writes, "Our Laboratory Steward, Mr. F. T. Smith, reached the age limit last year and retired on pension after some 40 years' service. His cheerful outlook coupled with his trustworthiness, loyalty, and affection for the College, will keep his memory fresh in the minds of the many who knew him." This tribute by Professor Hill can, I know, be paid to many other servants in the College, and I am very glad thus to place it on record.

The next three departments on my list, Geology, Chemistry, and Chemical Engineering, remind us once again of our housing problems. Chemical Engineering has plenty of space for itself, but cannot take all the students it would like because Chemistry and Engineering have no room to spare for their accommodation for certain essential parts of their work.

Professor Fisher sends from the Galton Laboratory a full and varied report, including accounts not only of genetical work, but also of serological work upon various blood groups done with the aid of help from the Rockefeller Foundation, and practical work during the crisis of September 1938 and again in April and May 1939, on emergency schemes concerned with blood-transfusion.

Professor Egon Pearson, in his report from the Department of Statistics, reminds us of the prominent place which this University holds in the world of Statistics, when he records the fact that, at a recent conference at Geneva dealing with certain applications of the Theory of Probability, out of fourteen persons who were asked to present reports, five had connections with this College, Professor Fisher, Professor Haldane, Professor Pearson himself, Dr. Neyman (who was on our staff and has recently gone to California), and Professor Spearman (Emeritus Professor of Psychology).

In the Department of Psychology we note the success of the scheme whereby students can now take Psychology as a subject for the Intermediate Examination. Some of us had our doubts about the wisdom of that change, but Professor Burt reports that twelve junior students, nearly all of unexpectedly high ability, have taken advantage of this possibility. When I speak of Professor Burt, I should like, in your name, to offer him our congratulations on the forthcoming conferment upon him by the University of Aberdeen of the Honorary degree of Doctor of Laws.

In the Department of Engineering one of the noteworthy features is the way in which this department has established contacts with so many other departments within the College. On the personal side, I should like to say how very sorry we are that Mr. Hart is leaving us. Mr. Hart has been an excellent member of our staff, not only as an able teacher and one who, especially in the field of surveying from the air, has been making real advances in our knowledge, but also because of his unfailing interest in the life of the students, past and present alike. To Major Capper we should like to offer our warm congratulations on the recognition of his long service to the cause of the Engineer Unit of the O.T.C. by the conferment upon him of the Territorial Decoration. The Electrical Engineering Department records its appreciation of the help that it is receiving from the Clinton Fund for equipment, so generously provided by the sister of our late Professor.

In the Faculty of Medical Sciences, despite the grievous blow sustained by the death of Professor Woollard, we have a full record of work from the Department of Anatomy. I should like to pay very special tribute to the services of Dr. de Beer, as acting head of the department since the death of Professor Woollard. No one could have been more helpful, more ready to meet and solve problems of every kind. It is interesting to note, in his report as in that of Professor T. G. Hill, a tribute to one of the college servants. I refer to Mr. F. J. Pittock, a photographer of outstanding skill who, during the course of last year, was awarded a special medal by the Photomicrographic Society.

In the Department of Physiology Professor Lovatt Evans notes the successful development of the scheme whereby the best of the medical students are encouraged to take an additional year either in Anatomy or Physiology, so that they may qualify for the B.Sc. Special degree in these subjects, a scheme which will doubtless commend itself to our Special Visitor of to-day. We have to congratulate Dr. Young on his appointment as Assistant Professor of Biochemistry at Toronto, where he succeeds Professor Marrian, another former member of our staff, to whom in his turn we offer congratulations on his appointment to the Chair of Medical Chemistry in the University of Edinburgh.

In student life there is not much to report. In Hockey (both 1st and 2nd Elevens) and in Cross Country Running, the men have

won the Intercollegiate Championships, and so also in the less strenuous occupations of Table-tennis and Chess. In rivalry with our old enemies and very good friends, King's College, they won the Commemoration Games at Mitcham, and we won the Foundation Games at Perivale. In the University Sports the Women's Union Society provided the winner of the Women's Long Jump in the person of Miss Helen Mayer, who won with a record of 17 ft. 6½ inches. Last year she won the High Jump in the same competition.

The Unions have lost a very good friend by the death of Dr. Goodbody, sometime member of the staff and, for many years, one of the Trustees of the Athletic Ground at Perivale. The last of his many services was to help Mr. Eumorfopoulos and others in the difficult task of selecting a new Sports Ground to replace that at Perivale, which we have been obliged to sell, owing to building and other developments. Thanks very largely to their devotion to the interests of the students, and their business acumen, the old grounds have been sold at a good price and larger grounds have been acquired at Shenley, with money left over to provide a pavilion, etc., and to help in the task of providing transport to this rather more distant ground. The new ground will come into use in April of next year.

Finally, one word of Mr. Eumorfopoulos himself. Last year he completed 50 years' association with the College—half a century spent unselfishly in the service of the College and its students. This evening, after this Assembly, students past and present, and old friends of every kind, are uniting in making a presentation to him in recognition of all he has done for us. May I, on your behalf, especially in so far as you represent the parents of those successive generations of students who have benefited by his good work, convey to him your warm good wishes ?

Sir Henry Dale's Address.

Mr. Chairman, Mr. Provost, Ladies and Gentlemen, you have done me great honour and put me in a very distinguished succession, in asking me to-day to greet the winners of the chief prizes and scholarships of this great College, and briefly to address the members of the Faculties, which so many great names in learning, art, and science have rendered illustrious, and the body of students, in whose hands lies so much of the future of University College.

I come to-day as a visitor, though not as a stranger ; for I worked for some two years in the Department of Physiology here, housed then in the top floor of the North wing of the main quadrangle—accommodation which, in retrospect, seems incredibly restricted and ill-fitted for that purpose, in comparison with the fine building now devoted to it. But the double star of Bayliss and Starling would have made much dingier quarters illustrious, and the department, when I entered it, was full of the eagerness and excitement of new discovery. Physiologists who are present can form an idea of that stimulating atmosphere, when I recall that Bayliss's work on the antidromic nerve impulses was then just coming to completion and that secretin had just risen above the horizon of new knowledge. I came into that laboratory as a young visitor, still completing my medical training elsewhere, and holding the research studentship which George Eliot had founded, at Cambridge, in memory of George Henry Lewes.

During my last six months in it I worked and taught as a member of the staff of the Department, holding the Sharpey Scholarship, and stimulated by the thought that it had earlier been held by men already famous in Physiology and Medicine, two of whom stood for much in the history of University College and its associated hospital—Edward Albert Schafer, who later added to his own the name of his great teacher Sharpey, and John Rose Bradford. I cannot persuade myself that my own young attempts at research in this College resulted in any important or permanent additions to knowledge ; but my stay here brought me the immeasurable gain of close contact with the thoughts and activities of great men, and won for me their generous friendship and loyal help during the rest of their lives. One other I would mention, with Bayliss and Starling, although he came to the College only after I had left it, Arthur Cushny, first holder of the first Chair to be founded in England for Experimental Pharmacology. Cushny, with his large, handsome presence, quiet voice and reserved manner, rather overawed me when I first met him ; but I shall never forget the generous encouragement with which he sought me out, when I had given evidence of activity in a particular field of research, without knowing that he had begun to work in it, and how he became thenceforward my trusted elder brother and counsellor in science until he died. The friendship which these great leaders gave me, continued by

their distinguished successors, men more nearly of my own generation and standing, has given me a sense of closer kinship with University College than I could have claimed from my brief period as a junior member of its staff.

I have not acquainted myself with the published records of addresses previously given at this annual Assembly, and my failure has not been wholly involuntary. For, when I was considering what I could say on such an occasion, it struck me that the subjects and sentiments really appropriate must be relatively few. Probably most of them, therefore, had already done duty on several earlier occasions, and, if I could not avoid plagiarism, I preferred it to be unconscious. I am aware, then, that reference must have been made, probably by more than one of my predecessors, to the part played by the foundation of University College, or London University as it was called at that stage, in creating a tradition, then new to England, of academic freedom in the pursuit of all knowledge for its own sake, unhampered by any restriction from political or religious dogmas or doctrines. I think it is especially appropriate, however, that we should remember it again at the present time, when the world is faced with an attempt, in some countries, to undo the progress of more than a century, by binding the academic spirit again with fetters worse than any from which it had earlier won its freedom.

It is well, I think, that we should also at the present moment remember with gratitude, that it was in certain of the Universities of Germany, as well as in those of Scotland, that Thomas Campbell found the chief source of the inspiration, which led him and others to advocate the establishment, here in London, of a University of a type then new to England. Many of you, doubtless, have read the history of the attempts made, by those concerned for the maintenance of privilege and conformity, and for the arrest of dangerous extensions of freedom to the mind of man, to kill this institution in its infancy by opposition, contempt, and ridicule. You might find it difficult, perhaps, to recognize the site upon which the College now stands from contemporary description as "a large space of mud and nastiness lying near the end of Gower St.," or the College itself as "a humbug joint stock subscription school for Cockney boys." The enthusiasm of the promoters was happily proof against this kind of thing, as against more dangerous and

difficult types of opposition from more authoritative quarters, and the fine story of their determined fight and their victory can be read, with so much else of interest, in Mr. Bellot's scholarly and stirring history of the College. If the success of these pioneers had meant nothing more than the foundation of this College, with all that has been achieved here in learning, art, and science, it would have been an event of first importance ; but it has meant much more than that. Macaulay foresaw, at the time of its beginning, that the College (I quote his own words) " will be a model to many future establishments—that even those haughty foundations which now treat it with contempt, will in some degree feel its salutary influence." Can it be doubted that they have done so ? The foundation of University College meant nothing less, indeed, than the beginning of a great renewal and reformation of academic traditions and ideals in England, which was to bring freedom, in its old Universities as well as in those which were later to arise, for the unhampered research and enterprise of the human mind over the whole domain of knowledge.

I suppose that, when this College began, at that time as a University in itself, except in the matter of granting Degrees, the existing English Universities of Oxford and Cambridge must have reached about their lowest levels in reputation, and in contribution to progressive thought and discovery. These ancient Universities, then the only ones in England, from which in earlier centuries had come Francis Bacon, William Harvey, Isaac Newton and Stephen Hales, Robert Boyle, Robert Hooke, John Mayow, and John Locke, seemed, at the end of the first quarter of the nineteenth century, to stand aloof from nearly all that was progressive in experimental science and speculative philosophy. The requirement of open profession of a particular religious formula, as a condition of graduation, must, indeed, have closed their doors to many able men of sensitive conscience and independent mind. It would be easy, on the other hand, to exaggerate the torpor which had fallen upon them, and it should be recognized that the stimulus of a distinguished personality might still cause in them an outburst of intellectual enterprise and activity, particularly in one or another of their constituent Colleges. As a later son of Trinity College, Cambridge, I take pride in the thought that a brilliant group of Trinity men became, when this University College was founded,

its first Professors of Classics, Law, and Mathematics, Augustus de Morgan being the greatest of them, and a powerful influence in the early history and development of the College.

The offer of university education of a high standard at relatively low cost, free from control or restriction by any established or dissentient religious body, was a great event in the educational and intellectual life of England, and created a great new tradition, which eventually spread from here throughout the University life of the country. Of at least equal importance, however, was the widening of the range of subjects regarded as proper to the curriculum and the activities of a University. In this direction also this College was a pioneer, and has continued through its subsequent history to give a lead, by the successive inclusion in its academic plans of new subjects in the range of the sciences or the arts, or by dealing with subjects also accepted by other Universities, in a manner more directly related to active and practical progress. The Slade School here provides, of course, one brilliant example of that enlightened policy. My own interests and activities naturally lead me to emphasize the immense importance of the opportunity which was given here to the natural sciences, making this place from the first a centre of active experimental as well as theoretical research and teaching in them. It was surely an event of first importance when Thomas Graham became the second Professor of Chemistry here ; and the history of the other scientific departments, which were founded here in succession, is rich with the names of great scientific pioneers. I shall not attempt any inclusive mention of them. Those who founded the College and guided its earlier development seem to have foreseen, in advance of others, the scientific era which was coming upon civilization, and the need to recognize a broad discipline in the natural sciences as part of a liberal education, with a view to that future.

Such a tradition could not remain localized, and I think we can properly trace the influence of what was begun here in the great developments in other Universities, which came later in the century. It would be idle to attempt to assess the degree of that influence in the great renascence of physical science in Cambridge, which began with Clerk Maxwell and continued with the succession of great natural philosophers who have followed him there, and which has given to the Cavendish Laboratory a position, perhaps, without

parallel in the world of science. In the case of the medical sciences, however, with which I have a more direct concern, the influence was of the clearest and most direct nature. In the basal science of anatomy the College has a great history, from Charles Bell, Richard Quain, Viner Ellis, William Sharpey, George Thane down to recent years, in which that department has suffered the loss, in tragically rapid sequence, of two great leaders in Grafton Elliot Smith, and, within the past year, of his brilliant pupil Herbert Woollard, to whom we were looking with confidence for the continued development of anatomy into an experimental science, bringing it into active and fruitful co-operation with the other branches of experimental enquiry which provide the basis of medical knowledge.

To William Sharpey, who, though himself essentially a descriptive anatomist, was Professor of Physiology here as well, we can trace a movement which, at the hands of his pupils, was to do nothing less than create the English school of physiology as we know it. Sharpey was no experimental worker himself, but he took great pains to demonstrate to his pupils the nature of the apparatus with which, largely in France and Germany, physiological knowledge was then being advanced. Sharpey-Schafer records, and I heard the same myself, as a young student at Cambridge, from Michael Foster, that Sharpey, being unable, in those days of humble beginnings to afford the cylindrical brass drum required to demonstrate the use of Ludwig's then newly invented kymograph, found an effective substitute in the cylindrical top hat of the period, suitably poised on a spindle of some kind. Sharpey, like his great pupil, Michael Foster, must have had the power of exciting interest and enthusiasm for an experimental technique which he hardly used himself. Foster, who before his return here had visited Paris and made contact with the great Claude Bernard, became, in Sharpey's department, the first Professor of Practical Physiology, and established the first laboratory here for the subject. He soon accepted a call, however, to go to Cambridge, where, in the absence of any suitable University Chair, Trinity College had offered him a Prælectorship in Physiology, with no other duties than to deliver what lectures he thought suitable and to organize a centre of research in the subject. Foster, in fact, not only introduced experimental physiology to Cambridge, but also imparted a new experimental spirit into the whole of the biological and medical

sciences there. What a wonderful group he attracted to his early class! It included Gaskell, who was also a student here, and who became one of the greatest physiologists of the English School; Langley, who was ultimately to succeed Foster in the Cambridge Chair; Roy, a pioneer in experimental pathology; Francis Balfour, who, starting with Foster, raised embryology to the status of a new science; Newell Martin, who carried the new tradition of English Physiology to Baltimore. In later years, when Foster had become Professor, came Sherrington, Hugh Anderson, Walter Fletcher, Joseph Barcroft, Keith Lucas, and others. It was Foster also who brought Gowland Hopkins to Cambridge, with results which were to mean so much for the development of Biochemistry. Foster was succeeded here, as Professor of Practical Physiology in Sharpey's Department, by John Burdon Sanderson, who later succeeded Sharpey as Professor of Physiology. Burdon Sanderson, like Foster, had earlier been to Paris and visited Claude Bernard, and then for a time practised medicine, before he came here. He remained longer, and his laboratory here became a famous workshop of research for men whose names also belong to the history of modern English physiology and experimental pathology—Sidney Ringer, G. J. Romanes, Victor Horsley, F. W. Mott, Francis Gotch, John Rose Bradford, W. M. Bayliss, and A. D. Waller. And when Burdon Sanderson went to Oxford, his influence in founding there a new School of experimental physiology and pathology was comparable to that of Foster in Cambridge.

The third of Sharpey's great pupils I have mentioned more than once already, Edward Albert Schafer, who, having held the Chair of Physiology here in succession to Burdon Sanderson, later migrated to Edinburgh, to awaken to new life, and to activity in research, the department of Physiology in that long famous medical school.

I could tell of many new lines of physiological enquiry which began here with the work of Sharpey's pupils, and their successors, but time and circumstance both impose restraint. I might touch just lightly on two, which are associated in my memory by the fact that both owed their origin to irrelevant or accidental circumstances, rather than to ordered plan. Sidney Ringer's discovery here of the saline solution which goes by his name, providing a starting-point for all present knowledge of the balanced action

of inorganic ions in living cells and tissues, really resulted from the laziness of his laboratory attendant. That worthy man thought that the ordinary tap water, then supplied by the New River Company, and containing by fortunate accident a physiological proportion of lime salts, would serve as well as distilled water, which took time and trouble to prepare, and that the Professor would never detect the difference. To the great benefit of science his assumption was incorrect. Schafer's discovery here of the remarkable activity of an extract from the suprarenal gland was made in an experiment which, reluctant and sceptical, he consented to perform under pressure from a physician of his acquaintance, Dr. George Oliver ; but in the result of the experiment so made we can discern the real beginning of a new chapter in physiology, of which further pages are still being written. And these two early discoveries, made here by two of those whom Sharpey had inspired with the love of experimental enquiry, come together in my mind to-day for a further reason. The reason is that the latest and current phase of an investigation which has been going on in my own laboratory, is concerned with the relation between that balanced action of ions which Ringer first revealed and the action of specific agents in transmitting excitation at relay junctions in the nervous system, of which the first hint appeared in Schafer's work on the suprarenal gland.

To Sharpey's department in this College, then, and to the men who went from it to other universities, and to their pupils in turn, we can trace a large part of that experimental development of the medical sciences in this country which is conspicuous at the present time. And the tradition has been transmitted here, through Starling and Bayliss, to the present day, when the Foulerton Professor of the Royal Society has his research department in a section of your Institute of Physiology, and one of Starling's chief disciples and collaborators, with whom I myself had the joy of working for two happy years before he returned here, has succeeded to Starling's Chair. And in the most recent forward movement in the medical sciences in this country, which is giving to clinical medicine itself an experimental discipline, it is to University College Hospital that we must look again to find one of the main springs of initiative and inspiration, in the Department of Clinical Research and its distinguished leader, Sir Thomas Lewis.

I trust this Assembly to recognize that, though I have spoken so much of one faculty, and only very incompletely of that one, I am by no means oblivious of the fact that there are other departments in this College concerned with other departments of natural, moral, and political science, with scholarship, history, archæology, literature, and the fine arts, for which equally good claims could be made, with regard both to their own achievements and to their wide influence as centres of progress in thought and practice, if I had the time and knowledge to present those claims. I must be content, however, to ask you to agree with me in placing, above such claim on behalf of any department or faculty, the claim of this College as a whole, which first achieved for itself, and then gave by its example to the Universities of this country, that unrestricted freedom for the enterprise of " man's unconquerable mind " which is the breath of life to a true University. I am proud of my association, brief though it was, with a great institution, and very proud and grateful that you have invited me to be your guest and to speak here to-day.

A Vote of Thanks to the Special Visitor was moved by the Dean of the Faculty of Medical Sciences (Professor C. Lovatt Evans) and seconded by the President of the Women's Union Society (Miss N. Field).